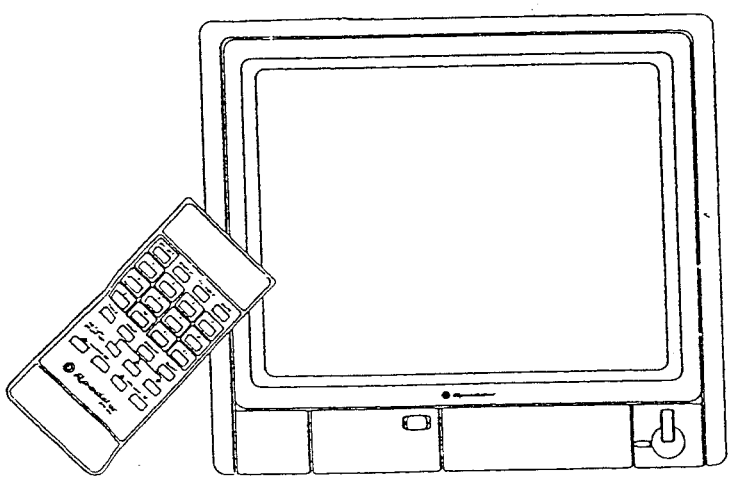
Roadstar®
AUDIO-VIDEO

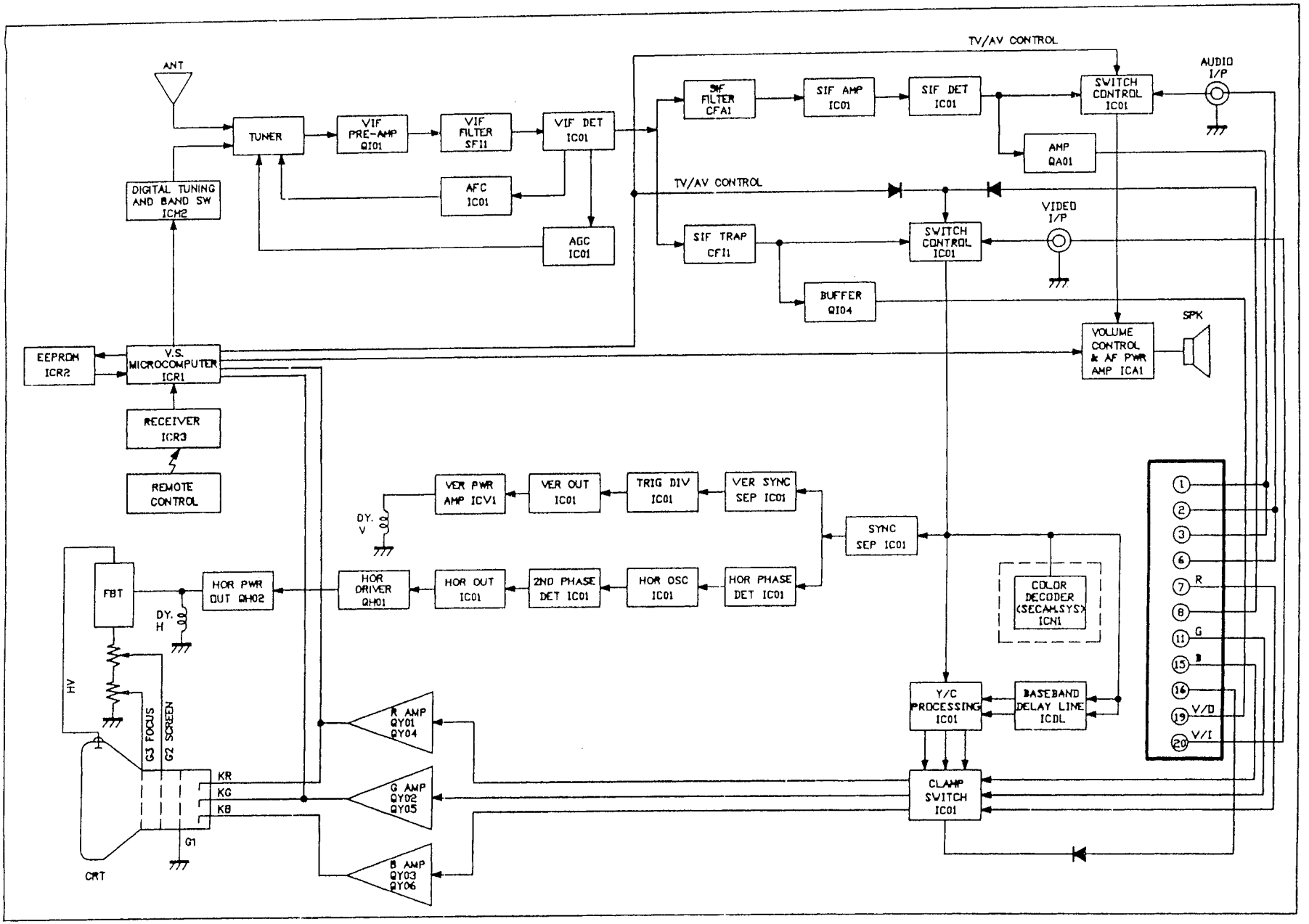
Service Manual

NEW CIRCUIT



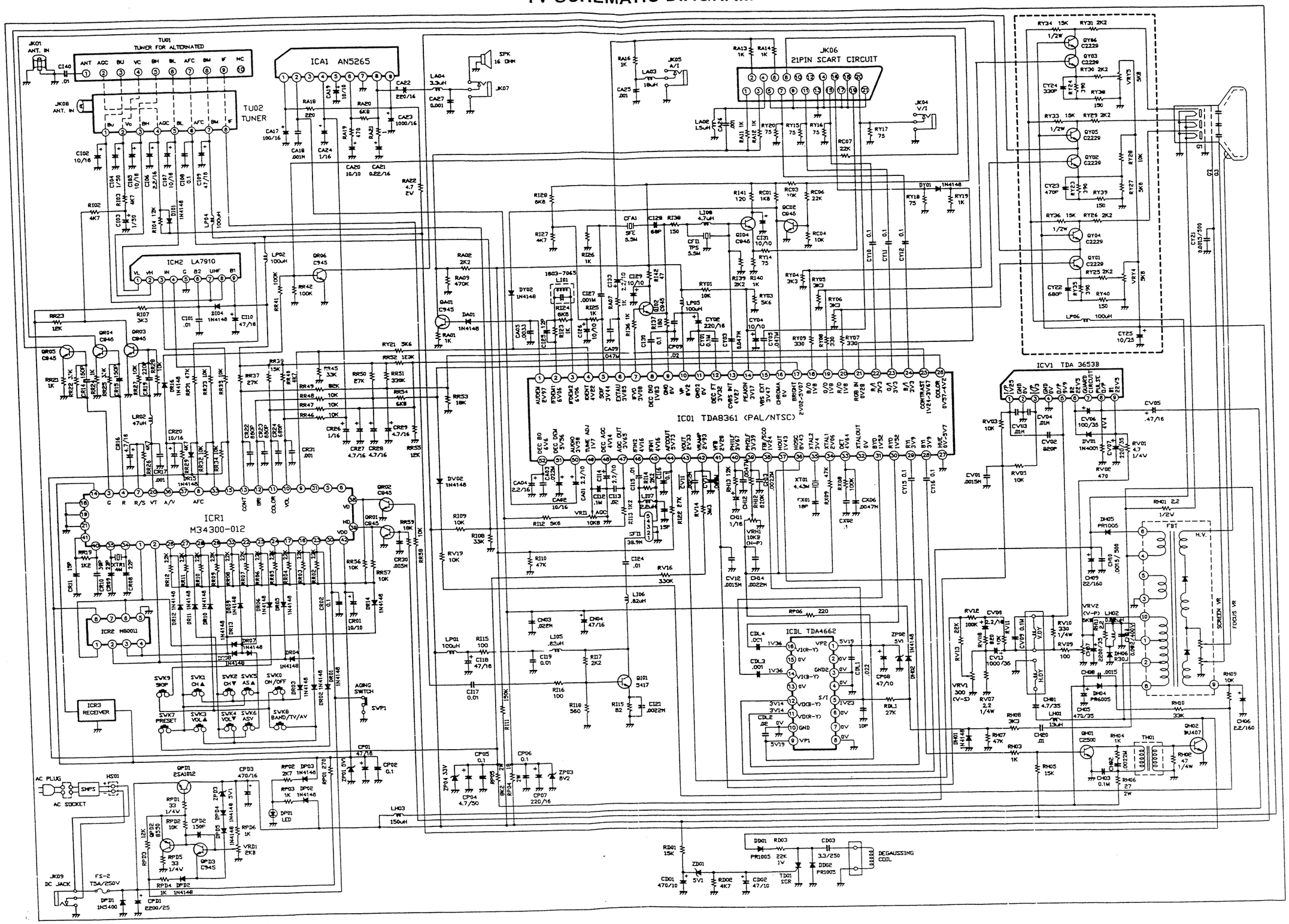
CTV-552XK
CTV-552EK

BLOCK DIAGRAM



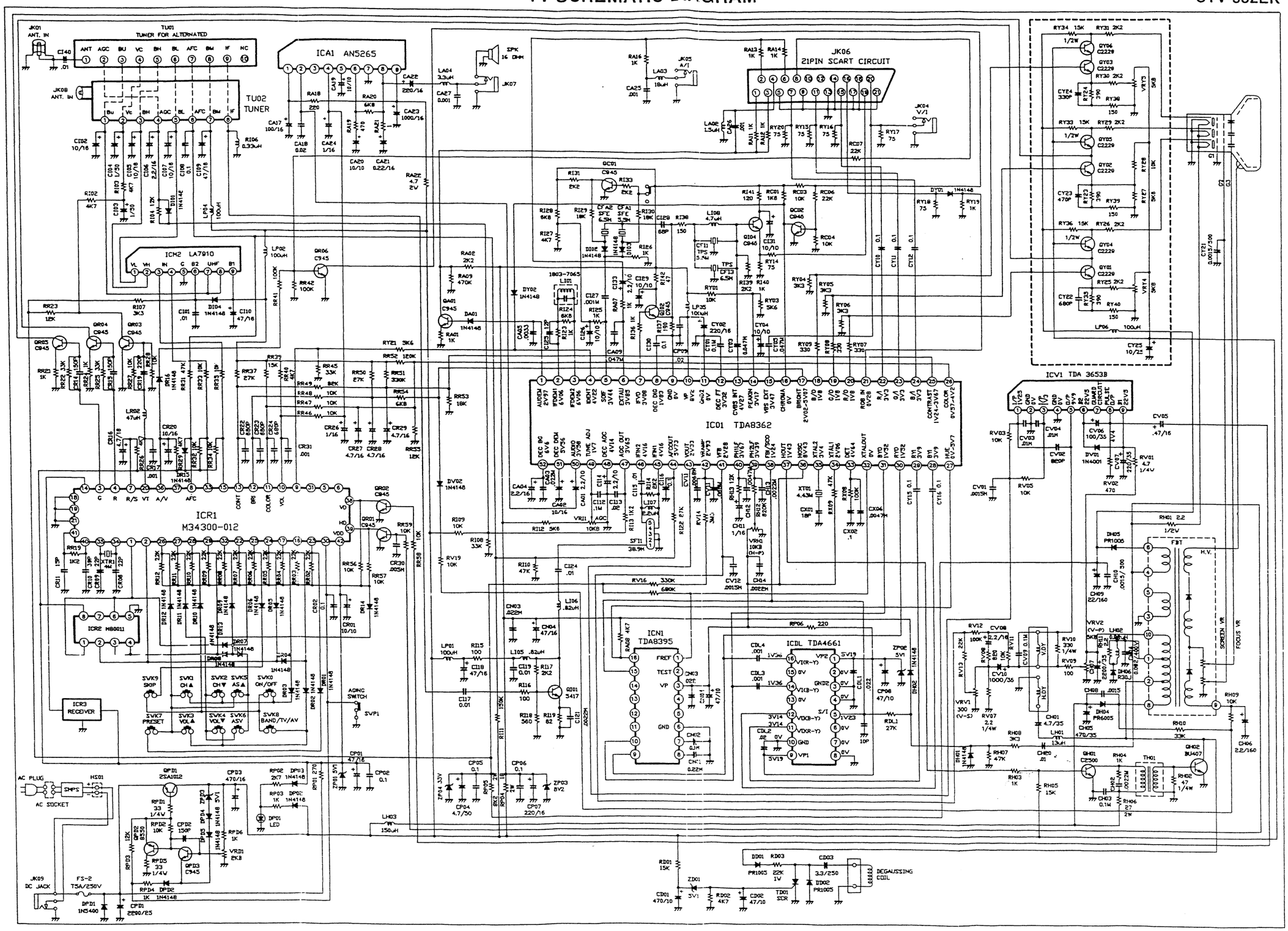
TV SCHEMATIC DIAGRAM

CTV-552X

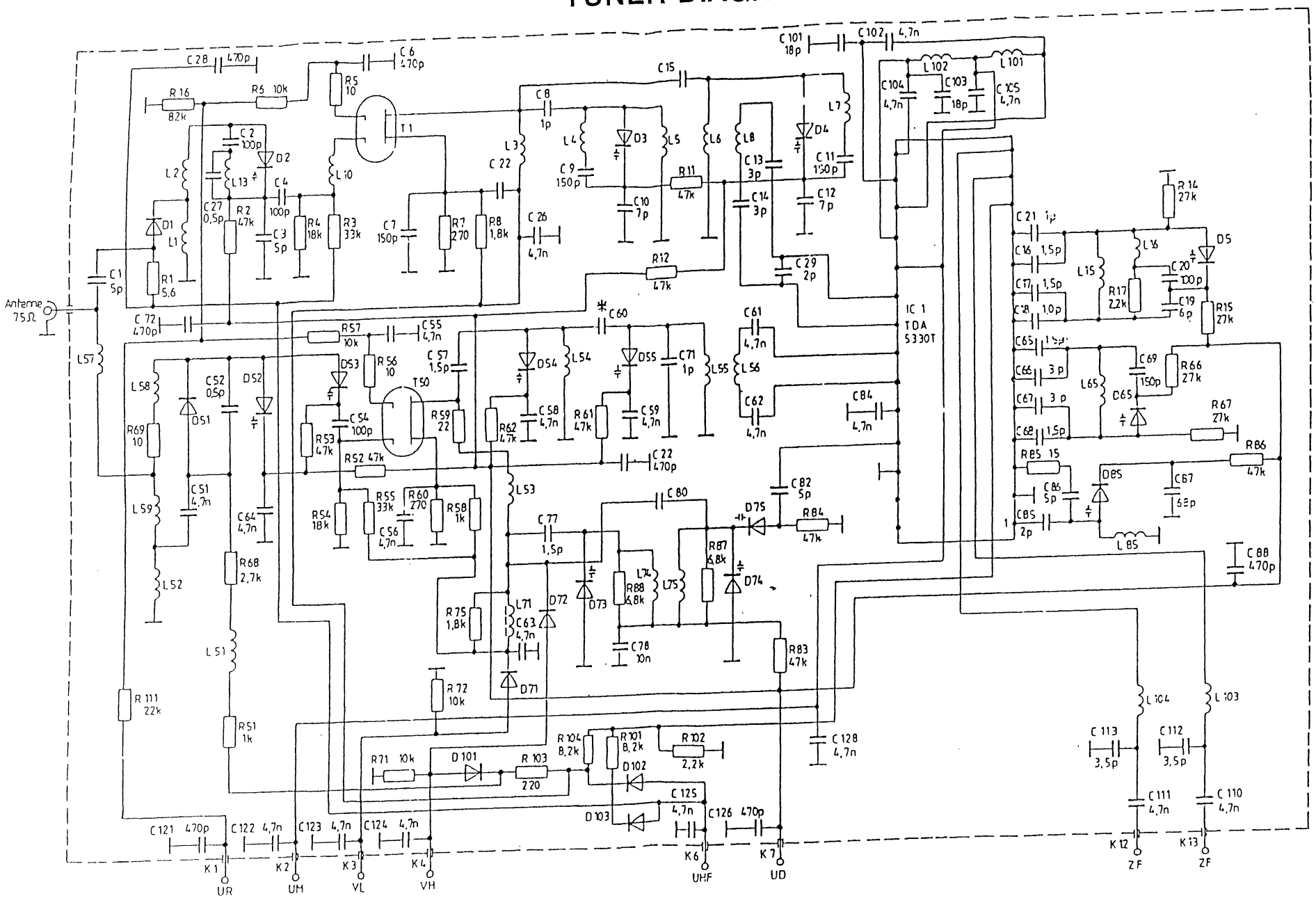


TV SCHEMATIC DIAGRAM

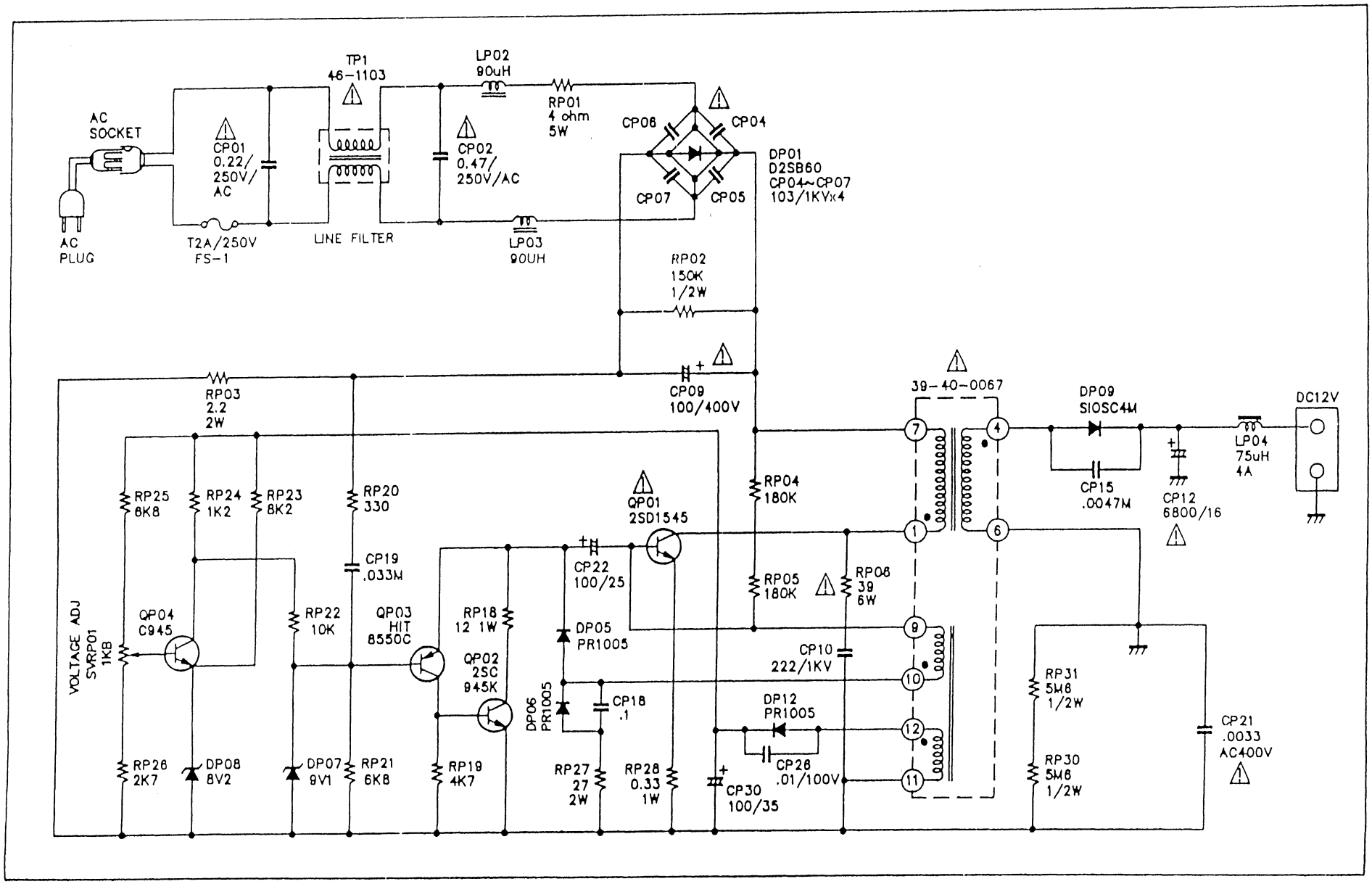
CTV-552EK



TUNER DIAGRAM

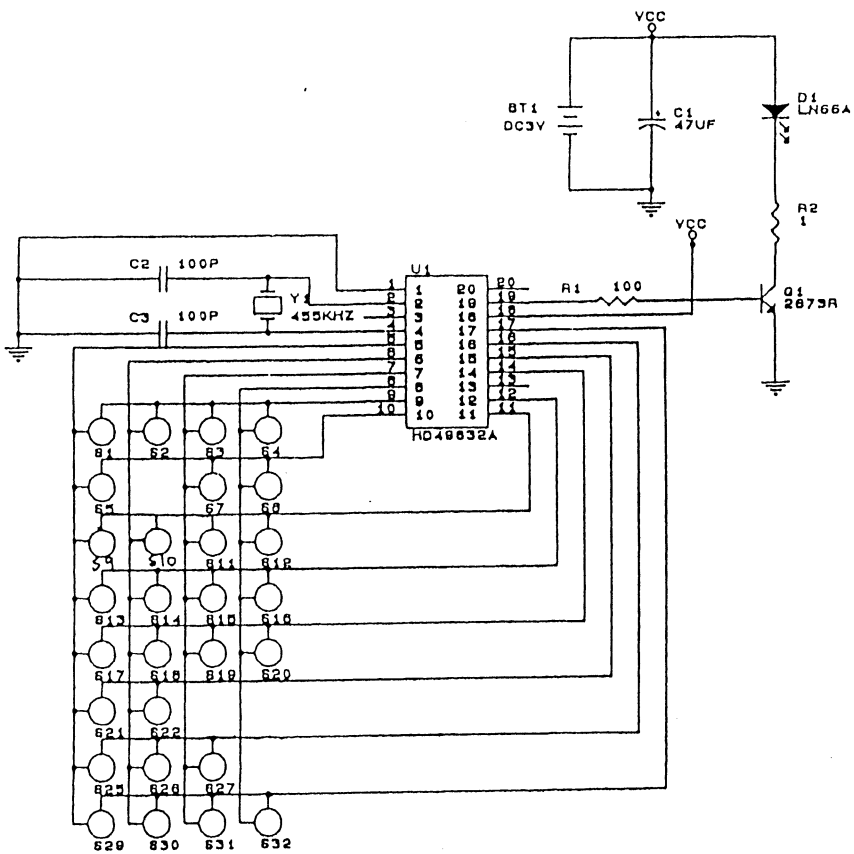


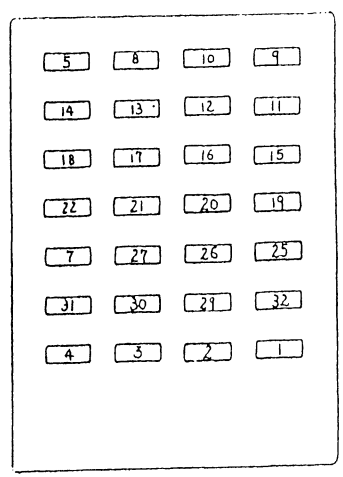
SWITCH POWER SCHEMATIC DIAGRAM



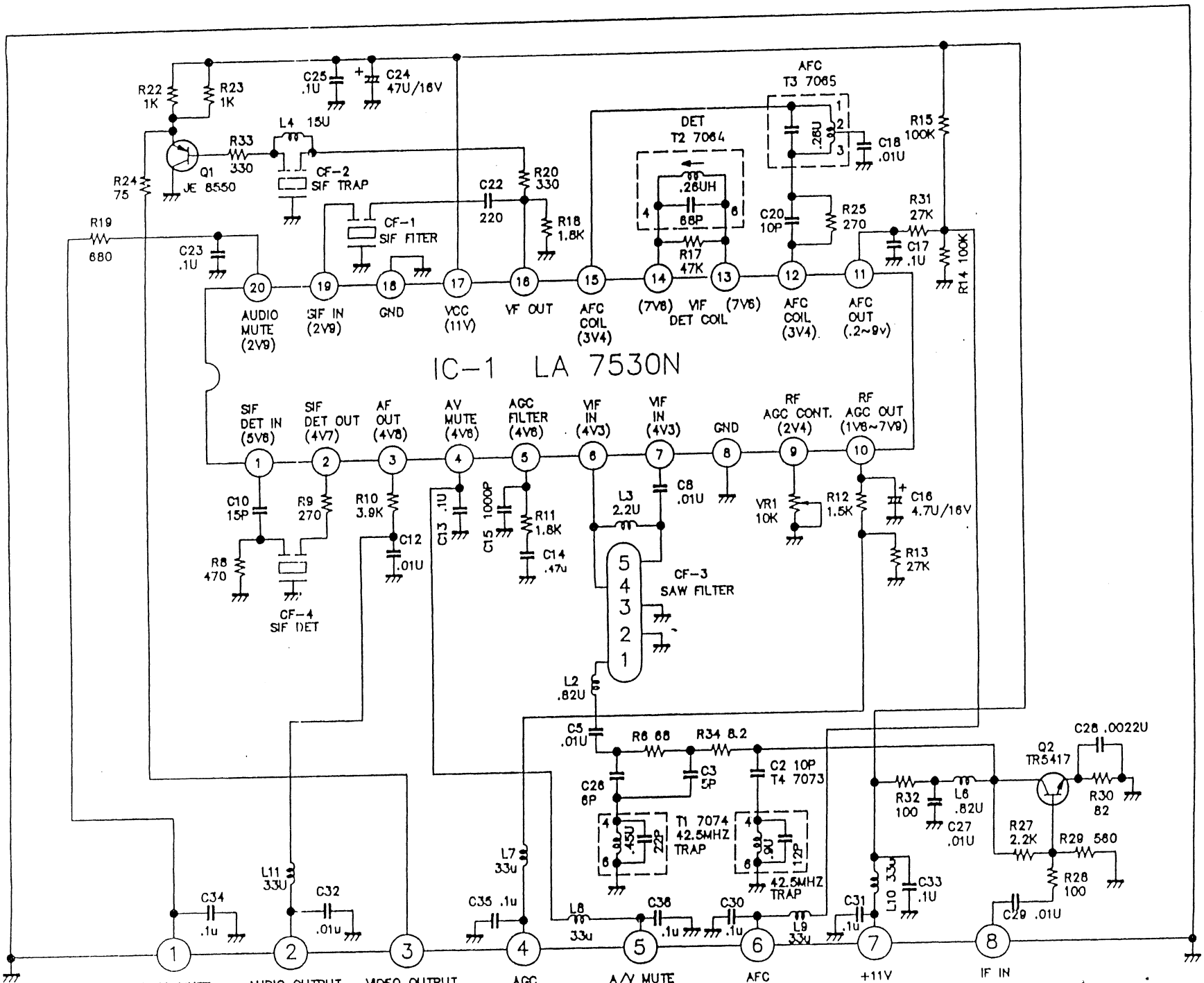
REMOTE CONTROL SCHEMATIC DIAGRAM

CTV-552X
CTV-552EK





VIF DET. MODULE OF CTV 552XL



ELECTRICAL SPECIFICATION

CTV-552X
CTV-552EK

SUPPLY VOLTAGE : AC 230V/50HZ OUTPUT: 50mW LOAD:16 OHM TEST:
GERERAL INFORMATION : TV 75 OHM INPUT ANT. SIFE VOLTAGE 0 dB =1uV

DESCRITION		UNIT	LIMIT	NOMINAL	NO.1	NO.2	NO.3	NO.4	NO.5	NO.6
VL BAND										
TUNING RANGE	HIGH	MHZ	62.25	65.25						
	LOW	MHZ	48.25	45.25						
MAX/USABLE SENS	CH - 2	dB	32/46	26 /40	/	/	/	/	/	/
	CH - 3	dB	32/46	26 /40	/	/	/	/	/	/
	CH - 4	dB	32/46	26 /40	/	/	/	/	/	/
IF REJ.	CH - 3	dB	40	50						
IMAGE REJ.	CH - 3	dB	40	50						
VHF BAND										
TUNING RANGE	HIGH	MHZ	224.25	228.00						
	LOW	MHZ	175.25	140.00						
MAX/USABLE SENS	CH - 5	dB	32/46	26 /40	/	/	/	/	/	/
	CH - 9	dB	32/46	26 /40	/	/	/	/	/	/
	CH - 12	dB	32/46	26 /40	/	/	/	/	/	/
IF REJ.	CH - 9	dB	50	60						
IMAGE REJ.	CH - 9	dB	40	50						
UHF BAND										
TUNING RANGE	HIGH	MHZ	855.25	860.00						
	LOW	MHZ	471.25	435.00						
MAX/USABLE SENS	CH - 21	dB	36/52	32 /46	/	/	/	/	/	/
	CH - 30	dB	36/52	32 /46	/	/	/	/	/	/
	CH - 40	dB	36/52	32 /46	/	/	/	/	/	/
	CH - 50	dB	36/52	32 /46	/	/	/	/	/	/
	CH - 60	dB	36/52	32 /46	/	/	/	/	/	/
IF REJ.	CH - 40	dB	40	50						
IMAGE REJ.	CH - 40	dB	30	40						
CATV TUNER TELEFUNKEN		CH	2900KHC S1->S20		/	/	/	/	/	/
		CH	3300KHC S1->S41		/	/	/	/	/	/
ADJ. PIX. ATT.		dB	20	30						
ADJ. SND. ATT.		dB	20	30						
SELF. SND. ATT.		dB	20± 6							
CONTRAST RANGE		dB	4	6						

ELECTRICAL SPECIFICATION

CTV-552X
CTV-552EK

DESCRITION	UNIT	LIMIT	NOMINAL	NO.1	NO.2	NO.3	NO.4	NO.5	NO.6
SOUND									
MAX. OUTPUT	mW	700	1000						
THD. OUTPUT 10 %	mW	500	700						
REF. THD	%	5	3						
S / N	dB	30	35						
AM SUPP.	dB	25	30						
MIN. HUM	mV	30	15						
RESPONSE FH 6 KHZ	dB	-3± 6	-3± 3						
FL 125 HZ	dB	-3± 6	-3± 3						
SIF. FREQ. ERROR	KHZ	± 100	0						
LIMIT SENS.	dB	80	70						
PICTURE									
LINEARITY VERT.	%	15	10						
HOR.	%	25	15						
PINCUSHION DIST.	%	2	1						
BARREL DIST.	%	2	1						
KEYSTANE DIST.	%	2	1						
V / H RATIO	%	100± 5	100%						
LUMINANCE MAX	lux	200	250						
MIN	lux	50	30						
VA TEST									
H. V. MAX	KV	16± 1	16						
H. V. MIN	KV	15± 1	15						
REG. VOLTAGE	V	10.8± 0.5	10.8						
DELAY AGC. VOLTAGE	V	5± 0.5	5						
REG. RIPPLE VOLTAGE	mV	30	15						
DC CONSUMPTION	W	46	44						
AC CONSUMPTION	W	65	59						

ALIGNMENT PROCEDURE

CTV-552X
CTV-552EK

REGULATOR ADJUSTMENT

NOTE: MALADJUSTMENT OF THE LOW VOLTAGE REGULATOR OR THE HORIZONTAL OSCILLATOR MAY RESULT IN DAMAGE TO THE HORIZONTAL OUTPUT TRANSISTOR OR PULSE LIMITER DIODE.
THE FOLLOWING PROCEDURES ARE RECOMMENDED TO INSURE SAFE OPERATION.

1. CONNECT THE TV TO AC 110~240V THEN ADJUST THE AC SWITCHING MODE POWER REGULATOR SVR1 TO DC 12V.
2. CONNECT A DC DIGITAL VOLTMETER OR OTHER PRECISION ACCURACY VOLTMETER TO THE COLLECTOR OF THE REGULATOR OUTPUT TRANSISTOR QPD1. (T.P1)

HORIZONTAL OSCILLATOR ADJUSTMENT

1. POWER ADJUSTMENT
   ADJUST THE REGULATOR VRD1 TO DC 10.8V.
2. VERTICAL HIGHTNESS ALIGNMENT
   ADJUST THE VERTICAL HIGHTNESS VRV1 & VRV2, ENABLE THE CIRCLE OF PICTURE APPROACH TO CIRCLE.
3. HORIZONTAL POSITION ALIGNMENT
   ADJUST HORIZONTAL POSITION VRH1, LET THE SQUARE SIGNAL IN THE CENTER OF THE SCREEN.
4. RF AGC ALIGNMENT
   ADJUST VIF PROCESS AGC CONTROL VRI1 AT INPUT SIGNAL INTENSITY 50dB, THE SCREEN COULD LOOKING CLEAR AND 80dB, THE SCREEN DON'T INFLECT.
5. WHITE BALANCE ALIGNMENT
   ADJUST THE VRY4, VRY5, AT CENTER POSITION. ADJUST SCREEN VR, LET THE SCREEN WILL BE LITTLE BRIGHTNESS. ADJUST VRY4 LET THE SCREEN TO BE YELLOW, AND THEN ADJUST VRY5 LET THE SCREEN APPROACH TO WHITE.
6. FOCUS ADJUSTMENT
   ADJUST FOCUS VR, LET THE STRIP IN THE SCREEN TO BE CLEAR.
7. SCREEN ADJUSTMENT
   ADJUST SCREEN VR LET THE BRIGHTNESS SUIT AS DESIRED.

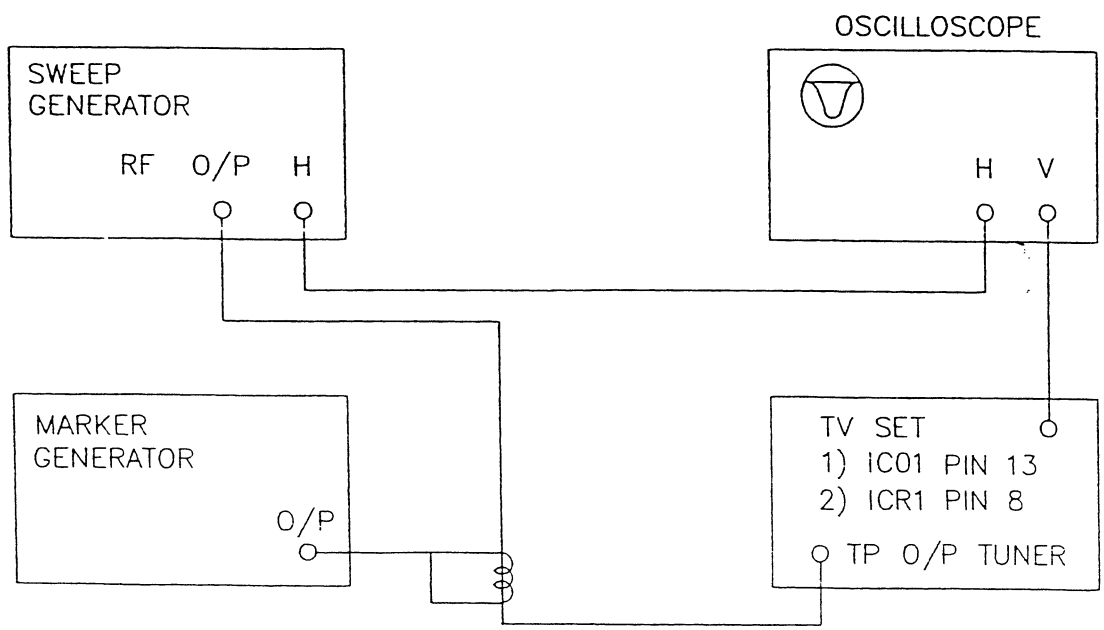
ALIGNMENT PROCEDURE

GENERAL ALIGNMENT INSTRUCTIONS

1. VIDEO IF ALIGNMENT

TEST EQUIPMENT CONNECTION (SEE FIGURE).
OSCILLOSCOPE: CONNECT TO THE (1). IC01 PIN 13.
(2). ICR1 PIN 8.
SWEEP GENERATOR: CONNECT THROUGH A MATCHING PAD TO THE TEST POINT (T.P) OF THE TUNER.
MARKER GENERATOR: COUPLE LOOSELY TO THE OUTPUT CABLE OF SWEEP GENERATOR.

ADJUST SWEEP GENERATOR TO LOWEST SIGNAL LEVEL CONSISTENT WITH USABLE			
STEP	SWEEP FREQUENCY	MARKER FREQUENCY	REMARK
1) ADJUST VIF DETECTOR LI01 FOR MARKER POINT MAX.	25~45 MHz (45~65 MHz FOR JAPAN). 30~50 MHz FOR CCIR.	SYSTEM B, G, H, 38.9 MHz SYSTEM I 36.9 MHz SYSTEM M, N 45.75 MHz (58.75 MHz FOR JAPAN) (34.7 MHz FOR AUSTRARIA SYSTEM)	IN THE PARENTHESIS FOR AFC CORRECTION.
2) ADJUST VIF DETECTOR LI01 FOR MARKER POINT MAX.	25~45 MHz (45~65 MHz FOR JAPAN). 30~50 MHz FOR CCIR.	SYSTEM B, G, H, 38.9 MHz SYSTEM I 36.9 MHz SYSTEM M, N 45.75 MHz (58.75 MHz FOR JAPAN) (34.7 MHz FOR AUSTRARIA SYSTEM)	IN THE PARENTHESIS FOR AFC CORRECTION.



VIDEO IF ALIGNMENT CONNECTING FIGURE

2. SOUND IF ALIGNMENT

TEST EQUIPMENT CONNECTION

SIGNAL GENERATOR: CONNECT TO TEST POINT (T.P) OF THE TUNER THROUGH A MATCHING PAD.

OSCILLOSCOPE: CONNECT TO THE ICA1 PIN 2.

ALIGNMENT PROCEDURE

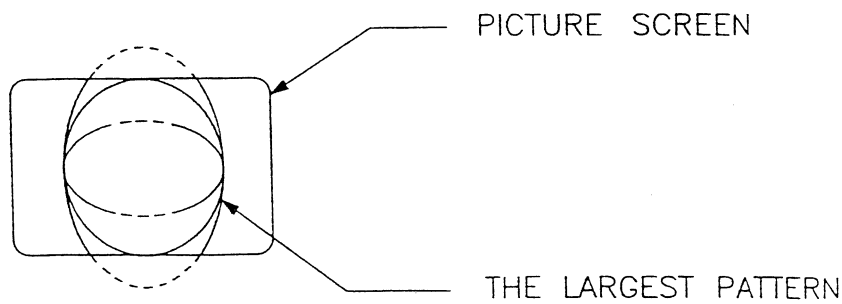
STEP	GENERATOR	SCOPE
DON'T ADJUST (PLEASE CHECK)	SYSTEM B, G, H, 33.4 MHz SYSTEM M,N 41.25 MHz (54.25 MHz FOR JAPAN) SYSTEM I 33.5 MHz. SYSTEM D,K, 32.4 MHz, 1 KHz FM MOD DEVIATION 25 KHz 80 dB OUTPUT.	CONNECT TO THE ICA1 PIN 2

3. VERTICAL DEFLECTION ALIGNMENT

(1) TUNE THE RECEIVER IN A TEST PATTERN.

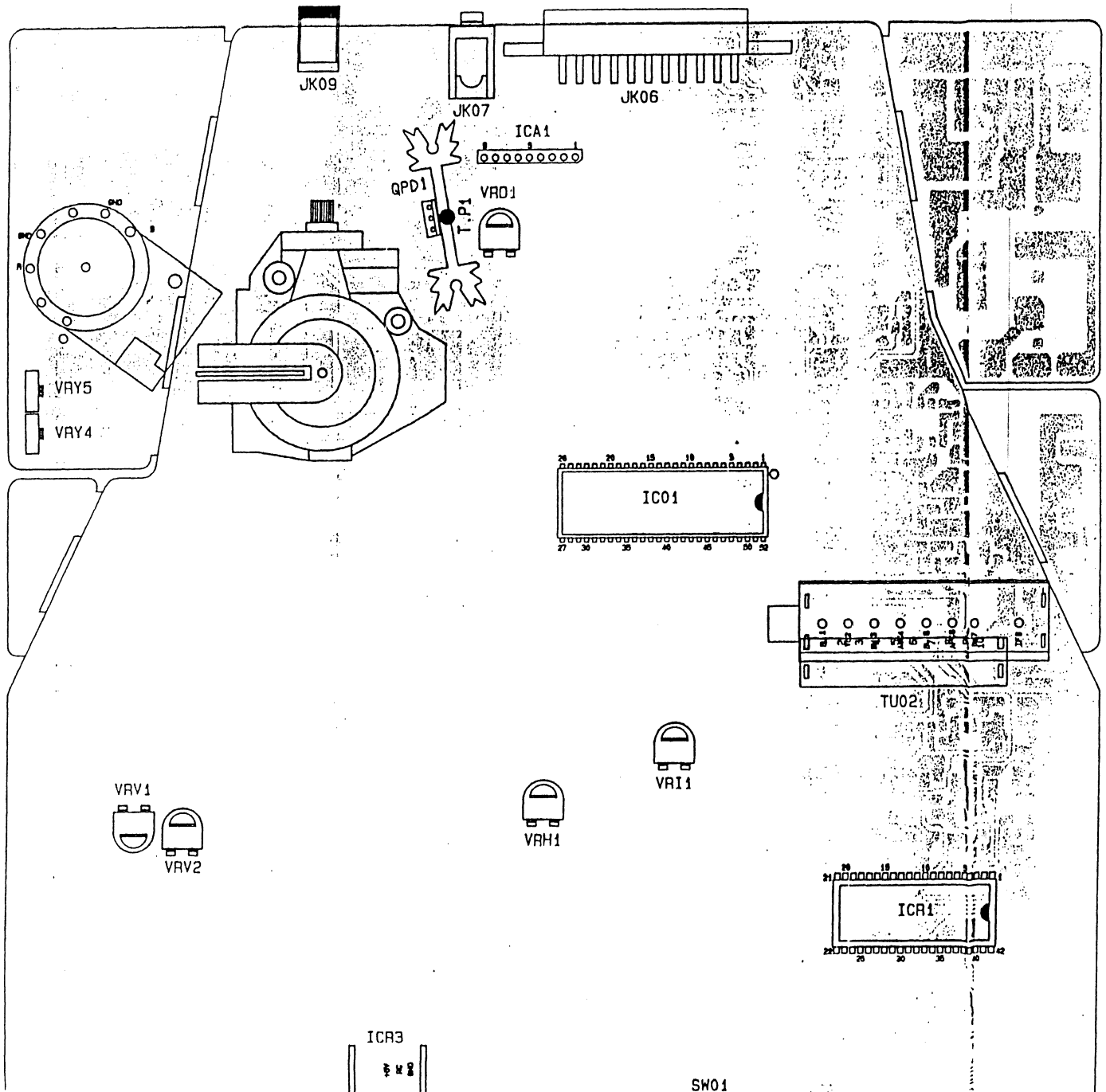
(2) ADJUST V-SIZE CONTROL VRV1 (300 ohm).
WHEN THE INSIDE OF THE LARGEST CIRCLE OF TEST PATTERN REACHES NEAR ROUND PATTERN. (SEE THE FIGURE)

(3) IF THE PATTERN NOT AT CENTER POSITION, ADJUST V-POSITION CONTROL VRV2 (5K OHM).



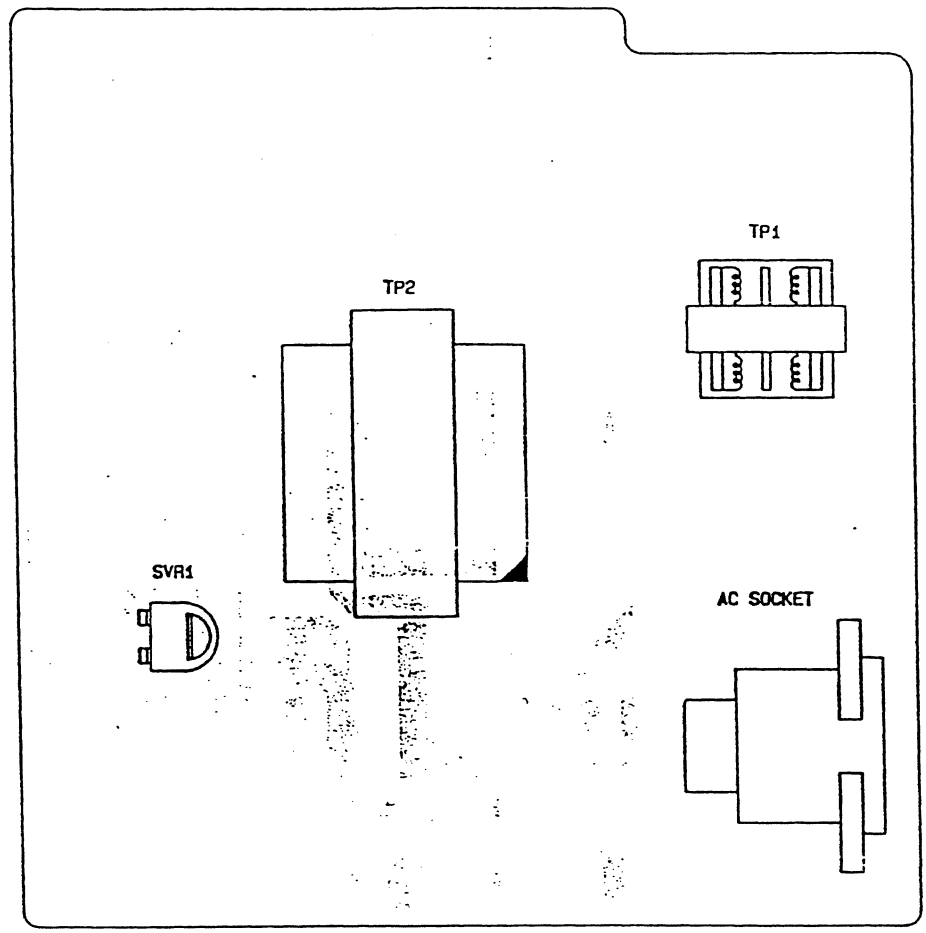
CHASSIS ALIGNMENT POINTS

CTV-552X
CTV-552EK



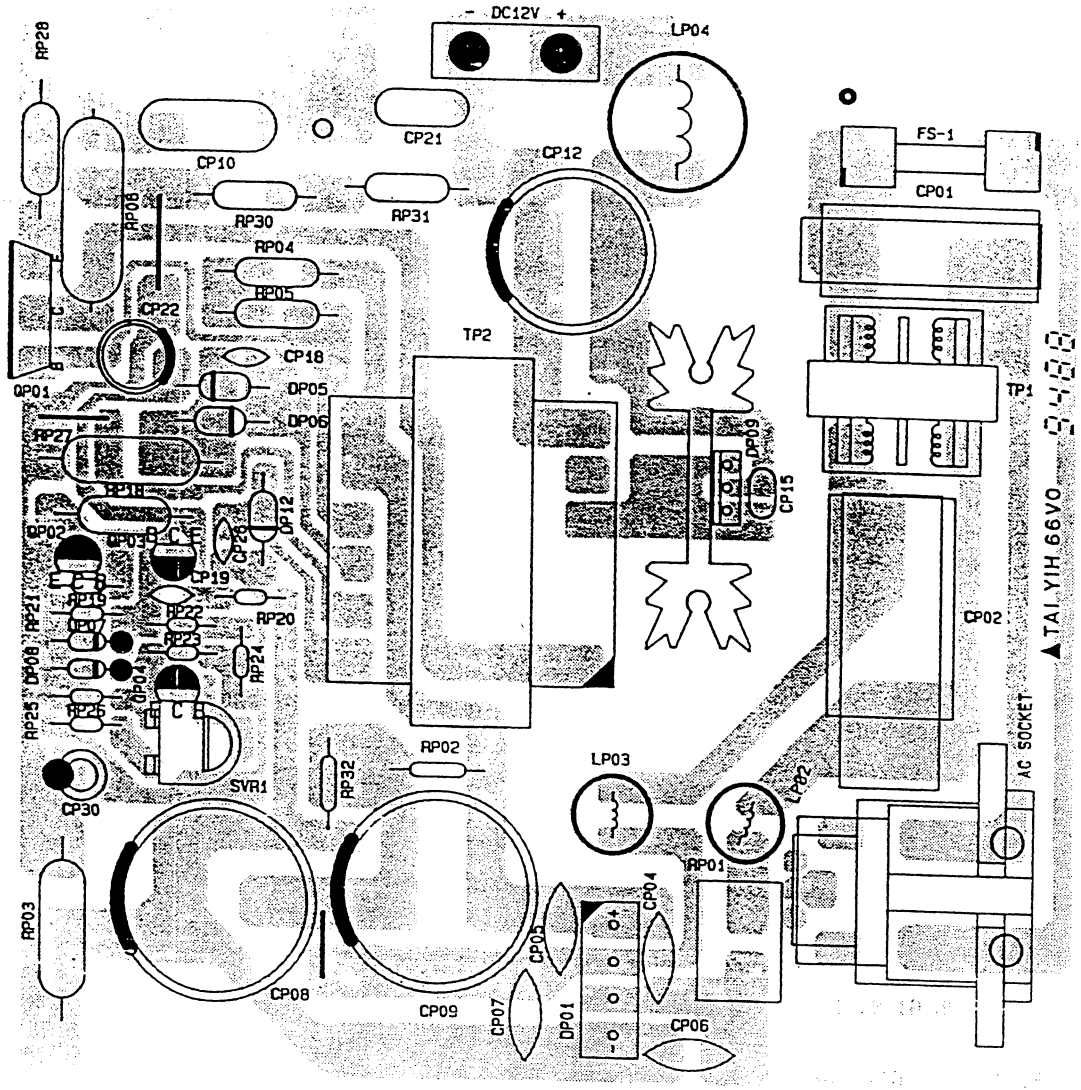
CHASSIS ALIGNMENT POINTS

CTV-552X
CTV-552EK



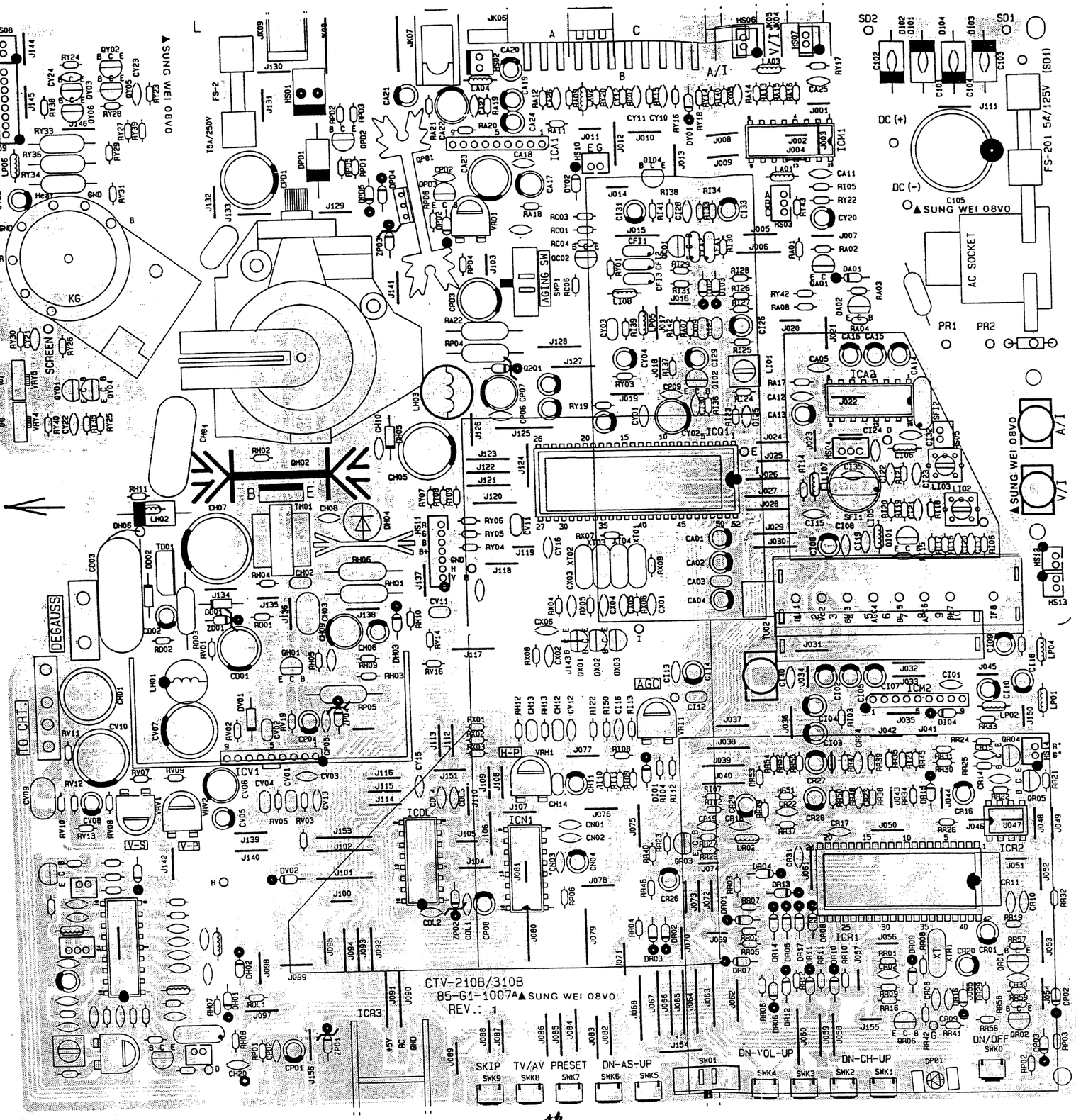
SWITCH POWER P.C.B. TOP VIEW

CTV-552X
CTV-552EK

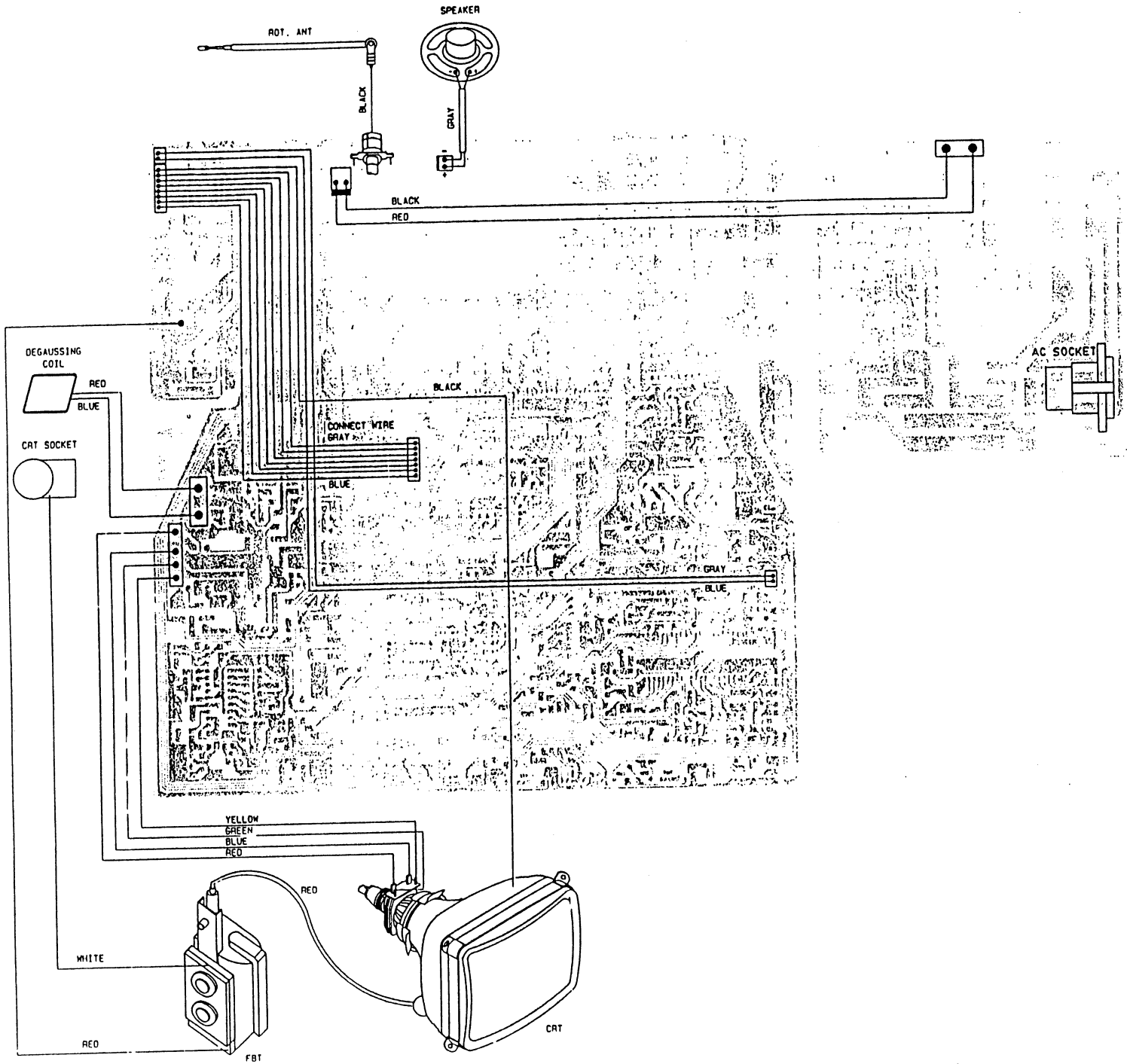


MAIN P.C.B. TOP VIEW

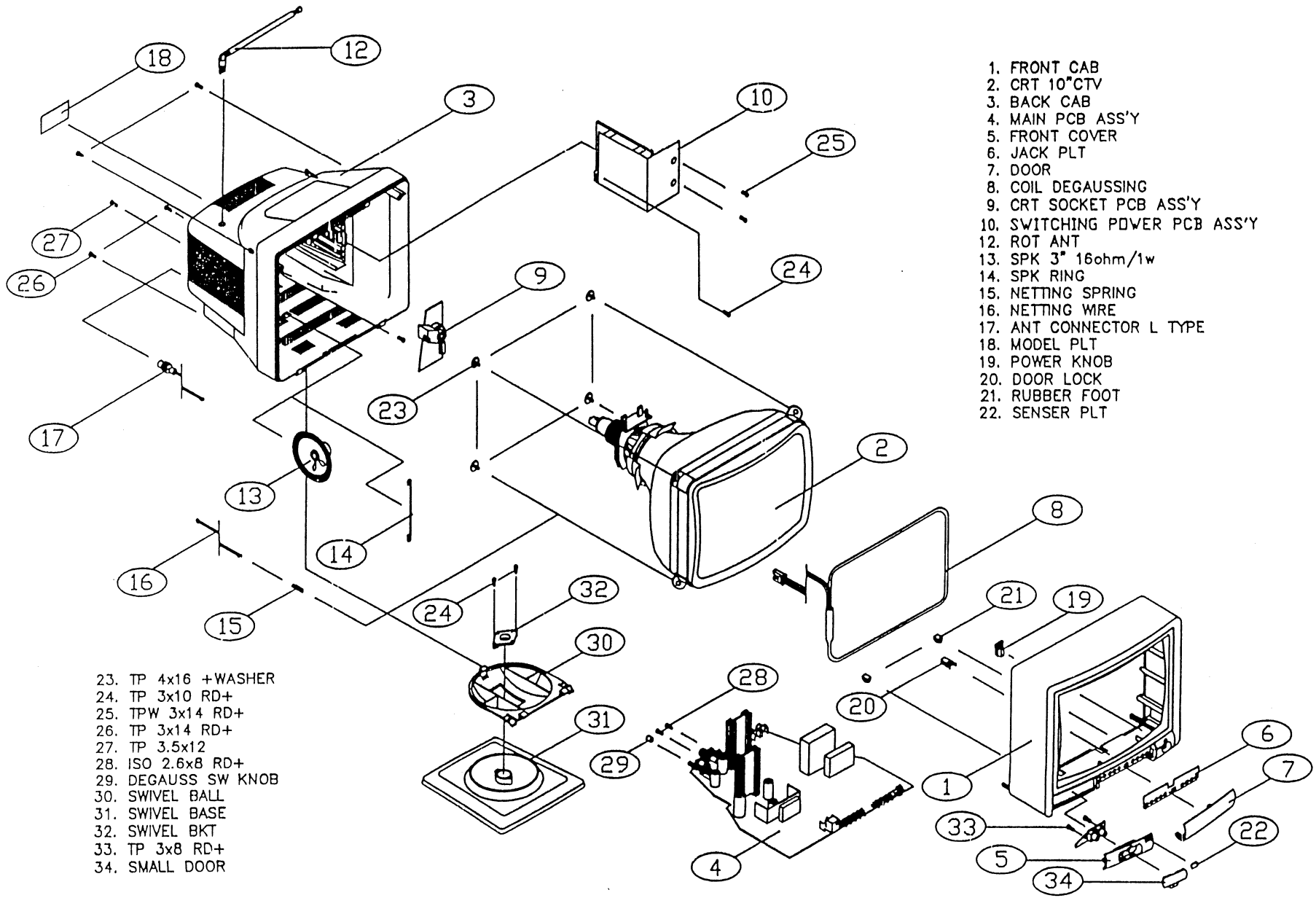
CTV-552X
CTV-552EK



WIRING DIAGRAM



EXPLODE VIEW



PARTS LIST
MAIN PCB ASSEMBLY

CTV-552X

MFR'S PART NO.	DESCRIPTION	SYMBOL NO.	Q'TY
PCB			
85-G1-1007	MAIN PCB (BLANK)		1
SEMICONDUCTORS			
10-10-1017	IC M34300-012SP 42 PIN	ICR1	1
10-11-1005	IC M6M 80011P 8 PIN	ICR2	1
10-20-0120	IC TDA4662 16 PIN	ICDL	1
10-20-0607	IC TDA3653B 9 PIN	ICV1	1
10-20-0704	IC TDA8361 52 PIN	ICO1	1
10-20-1009	IC AN5265 9 PIN	ICA1	1
10-20-1012	IC LA7910 9 PIN	ICM2	1
12-01-1002	TRANSISTOR 5417F (NPN)	QIO1	1
12-02-1003	TRANSISTOR 2SC945 (NPN)	QR01,02,03,04,05,06, QI02,04,QA01,QC02,QPD3	11
12-03-1047	TRANSISTOR C2310/2229 (NPN)	QY01,02,03,04,05,06	6
12-03-2031	TRANSISTOR 8550 (PNP)	QPD2	1
12-03-2033	TRANSISTOR 2SA1012 (PNP)	QPD1	1
12-04-0001	TRANSISTOR TLS106-4	TD01	1
12-04-1002	TRANSISTOR D788CD/2SC2500	QH01	1
12-04-1013	TRANSISTOR BU407 (NPN)	QH02	1
12-05-5006	TRANSISTOR X'TAL 4.43MHz	XT01	1
12-05-5012	TRANSISTOR X'TAL 4.0 MHz	XTR1	1
13-03-1000	DIODE IN4148/HA161	DP03	1
13-05-1000	DIODE IN4001 1A 50V	DV01	1
13-05-1003	DIODE IN5400 3A 50V	DPD1	1
13-05-1008	DIODE PR1005 1A	DD01,02,DH05	3
13-05-1011	DIODE PR3005 3A 600V	DH06	1
13-05-1025	DIODE PR6005 6A 600V	DH04	1
13-06-1330	DIODE ZENER 33V	ZP04	1
13-06-1519	DIODE ZENER 5.1V	ZP01,02,ZD01,ZPD3	4
13-06-1829	DIODE ZENER 8.2V	ZP03	1
13-23-1000	DIODE IN4148	DR01,02,03,04,05,06,07 DR08,09,10,11,12,13,14 DR15,16,DPD2,D4,D5,62, DH01,02,DI01,04,DY01, DY02,DV02,DA01	28
CAPACITORS			
17-05-2479	ELECTROLYTIC 4.7uF 50V ± 10%	CH01	1
17-15-1120	CERAMIC 12 pF 50V ±5%	CI25	1
17-15-1151	CERAMIC 150pF 50V ±5%	ICR1 PIN#3, #4 TO GND	1
17-15-4104	CERAMIC .1 uF 50V +80%-20%	CP02	1
17-18-4152	CERAMIC .0015uF 500V +80%-20%	CH08,10,CY21	3
17-22-3102	ELECTROLYTIC 1000uF 16V ± 20%	CA23	1
17-22-3471	ELECTROLYTIC 470uF 16V ±20%	CPD3,CD01	2
17-23-3222	ELECTROLYTIC 2200uF 25V ±20%	CPD1	1

PARTS LIST
MAIN PCB ASSEMBLY

CTV-552X

MFR'S PART NO.	DESCRIPTION	SYMBOL NO.	Q'TY
CAPACITORS			
17-24-3101	ELECTROLYTIC 100 uF 35V ±20%	CV06	1
17-24-3102	ELECTROLYTIC 1000uF 35V ±20%	CV10	1
17-24-3221	ELECTROLYTIC 220 uF 35V ±20%	CV07	1
17-24-3222	ELECTROLYTIC 2200uF 35V ±20%	CH07	1
17-24-3471	ELECTROLYTIC 470 uF 35V ±20%	CH05	1
17-26-3220	ELECTROLYTIC 22 uF 160V ±20%	CH09	1
17-26-3229	ELECTROLYTIC 2.2uF 160V ±20%	CH06	1
17-35-2104	MYLAR .1uF 50V ±10%	CI12,CV09,CH03	3
17-35-2222	MYLAR .0022uF 50V ±10%	CI21	1
17-35-2683	MYLAR .068uF 50V ±10%	CV11	1
17-37-2335	MC 3.3 uF 250V ±10%	CD03	1
17-68-2332	DPPN 3300 pF 400V ±10%	//CH04	1
17-68-2823	DPPN .082uF 400V ±10%	CH04	1
27-15-1150	CERAMIC 15pF 50V ±5%	CR11,CI35	2
27-15-1151	CERAMIC 150pF 50V ±5%	CR14,15,CPD2	3
27-15-1180	CERAMIC 18 pF 50V ±5%	CX01	1
27-15-1220	CERAMIC 22 pF 50V ±5%	CR08,09	2
27-15-1390	CERAMIC 39 pF 50V ±5%	CR10	1
27-15-1680	CERAMIC 68 pF 50V ±5%	CI28	1
27-15-2221	CERAMIC 220pF 50V ±10%	CR19	1
27-15-2331	CERAMIC 330pF 50V ±10%	CY24	1
27-15-2471	CERAMIC 470pF 50V ±10%	CY23	1
27-15-2681	CERAMIC 680pF 50V ±10%	CR22,23,24,CY22	4
27-15-4102	CERAMIC .001uF 50V +80%-20%	CR17,31,CDL3,L4,CA25, CA26,27	7
27-15-4103	CERAMIC .01uF 50V +80%-20%	CI01,15,17,19,24,CH20	6
27-15-4104	CERAMIC 0.1uF 50V +80%-20%	CY01,10,11,12,15,16, CI08,16,30,CP05,06 CR02,CX02	13
27-15-4203	CERAMIC .02uF 50V +80%-20%	CP09,CDL2,CI13	3
27-15-4502	CERAMIC .005uF 50V +80%-20%	CR30	1
27-22-3101	ELECTROLYTIC 100uF 16V ±20%	CA17	1
27-22-3221	ELECTROLYTIC 220uF 16V ±20%	CP07,CA22,CY02	3
22-22-3470	ELECTROLYTIC 47uF 16V ±20%	CI09,10,18,CP01,08, CD02,CN04	7
27-23-3100	ELECTROLYTIC 10uF 25V ±20%	CI02,05,07,26,29,31, CA02,19,20,CR01,20, CY04,25	13
27-23-3109	ELECTROLYTIC 1 uF 25V ±20%	CI03,04,CH11,CA24,CR26	5
27-25-3228	ELECTROLYTIC .22uF 50V ±20%	CA21	1
27-25-3229	ELECTROLYTIC 2.2uF 50V ±20%	CI06,14,33,CA01,04,CV08	6
27-25-3478	ELECTROLYTIC .47uF 50V ±20%	CV05	1
27-25-3479	ELECTROLYTIC 4.7uF 50V ±20%	CR16,27,28,29,CP04	5
27-35-2102	POLYESTER .001 uF 50V ±10%	CI27,CA18	2
27-35-2103	POLYESTER .01 uF 50V ±10%	CV03,04	2
27-35-2152	POLYESTER .0015uF 50V ±10%	CV01,12	2
27-35-2222	POLYESTER .0022uF 50V ±10%	CH02,13,14,//CV11	4
27-15-2821	CERAMIC 820 pF 50V ±10%	CV02	1
27-15-1100	CERAMIC 10 pF 50V ±5%		1

PARTS LIST
MAIN PCB ASSEMBLY
CTV-552X

MFR'S PART NO.	DESCRIPTION	SYMBOL NO.	Q'TY
CAPACITORS			
27-35-2223	POLYESTER .022 uF 50V ±10%	CA03,CDL1,CN03	3
27-35-2332	POLYESTER .0033uF 50V ±10%	CA05	1
27-35-2472	POLYESTER .0047uF 50V ±10%	CH12,CX06	2
27-35-2473	POLYESTER .047 uF 50V ±10%	CY03,05,CA09	3
CHOKES & IFTS			
18-03-3001	FILTER SIF 5.5 MHz	CFA1	1
18-03-3002	FILTER SIF TRAP 5.5 MHz	CFI1	1
18-03-5003	FILTER VIF CTV 38.9 MHz	SFI1	1
18-03-7065	FILTER VIF AFC 38.9 MHz	LI01	1
19-40-2159	CHOKE 1.5 uH	LA02	1
19-40-2180	CHOKE 18 uH	LA03	1
19-40-2229	CHOKE 2.2uH	LI07	1
19-40-2339	CHOKE 3.3uH	LA04	1
19-40-2470	CHOKE 47 uH	LR02	1
19-40-2479	CHOKE 4.7uH	LI08	1
19-40-2828	CHOKE .82uH	LI05,06,LH02	3
19-40-3101	CHOKE 100uH	LP01,02,04,05,06	5
19-40-3151	CHOKE 2A 150 uH	LH03	1
19-43-1130	LINEAR COIL 13uH	LH01	1
JACKS			
23-01-0004	FUSE HOLDER		2
23-03-3502	MICROPHONE JACK 3.5D	JK07	1
23-05-5001	DC JACK, 4.5D	JK09	1
23-06-0015	RCA JACK, WHITE	A/I	1
23-06-0016	RCA JACK, YELLOW	V/I	1
23-06-0028	SOCKET, 21 PIN	JK06	1
23-08-0905	CRT SOCKET		1
SWITCHES			
22-12-0113	SWITCH, SLIDE, 1P2T	SWP1	1
22-81-0103	SWITCH, TACT	SWK0,1,2,3,4,5,6,7,8,9	10
VARIABLE RESISTORS			
21-72-1039	SVR 10KB	VRI1, VRH1	2
21-72-2023	SVR 2KB	VRD1	1
21-72-3013	SVR 300B	VRV1	1
21-72-5023	SVR 5KB	VRY4,5	2
21-72-5024	SVR 5KB	VRV2	1
RESISTORS			
16-01-1153	CARBON FILM 15K OHM 1/2W	RY33,34,36	3
16-01-1229	CARBON FILM 2.2 OHM 1/2W	RH01	1
16-03-1102	CARBON FILM 1K OHM 1/8W	RP03	1

PARTS LIST
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MFR'S PART NO.	DESCRIPTION	SYMBOL NO.	Q'TY
RESISTORS			
16-03-1272	CARBON FILM 2.7KOHM 1/8W	RP02	1
16-06-1223	CARBON FILM 22K OHM 1 W	RD03	1
16-07-1479	CARBON FILM 4.7 OHM 2 W	RA22	1
16-12-1229	CARBON FILM 2.2 OHM 1/4W	RV07	1
16-12-1330	CARBON FILM 33 OHM 1/4W	RPD1.D5	2
16-12-1331	CARBON FILM 330 OHM 1/4W	RV10	1
16-12-1470	CARBON FILM 47 OHM 1/4W	RH02	1
16-12-1479	CARBON FILM 4.7 OHM 1/4W	RV01	1
16-47-1180	CARBON FILM 18 OHM 2 W	RP04	1
16-47-1270	CARBON FILM 27 OHM 2 W	RH06	1
16-47-1822	CARBON FILM 8.2K OHM 2 W	RP05	1
16-23-1101	CARBON FILM 100 OHM 1/8W	RI15.16.RV09	3
16-23-1102	CARBON FILM 1 K OHM 1/8W	RI23.25.26.36.40.RA01. RA07.11.12.13.14.16. RH03.04.RPD4.D6.RR21. RR24.RY19	19
16-23-1103	CARBON FILM 10K OHM 1/8W	RR27.28.32.33.34.35.46 RR47.48.56.57.58.59. RY01.RV03.05.11.19. RC03.04.RH09.RPD2.RI09 RY28	24
16-23-1104	CARBON FILM 100K OHM 1/8W	RR41.42.RX08.RV12	4
16-23-1109	CARBON FILM 1 OHM 1/8W	RA21	1
16-23-1121	CARBON FILM 120 OHM 1/8W	RI41	1
16-23-1122	CARBON FILM 1.2K OHM 1/8W	RR19.RI13	2
16-23-1123	CARBON FILM 12K OHM 1/8W	RR23.55.RI04.RPD3.RH13	5
16-23-1124	CARBON FILM 120K OHM 1/8W	RR52	1
16-23-1151	CARBON FILM 150 OHM 1/8W	RI38.RY38.39.40	4
16-23-1153	CARBON FILM 15K OHM 1/8W	RR39.RH05.RD01	3
16-23-1154	CARBON FILM 150K OHM 1/8W	RI11	1
16-23-1181	CARBON FILM 180 OHM 1/8W	RI37	1
16-23-1182	CARBON FILM 1.8K OHM 1/8W	RC01	1
16-23-1183	CARBON FILM 18 K OHM 1/8W	RR53	1
16-23-1221	CARBON FILM 220 OHM 1/8W	RP06.RA18	2
16-23-1222	CARBON FILM 2.2K OHM 1/8W	RY25.26.29.30.31.RI14. RI17.39.RA02	9
16-23-1223	CARBON FILM 22K OHM 1/8W	RR02.03.04.05.06.07.08 RR09.10.11.12.RC06.07. RV13	14
16-23-1229	CARBON FILM 2.2 OHM 1/8W	RH11	1
16-23-1271	CARBON FILM 270 OHM 1/8W	RP01	1
16-23-1273	CARBON FILM 27K OHM 1/8W	RI22.RDL1.RR50.37	4
16-23-1331	CARBON FILM 330 OHM 1/8W	RY07.08.09	3
16-23-1332	CARBON FILM 3.3K OHM 1/8W	RY04.05.06.RH08.RI07	5
16-23-1333	CARBON FILM 33K OHM 1/8W	RR22.25.45.RI08.RH10	5
16-23-1334	CARBON FILM 330K OHM 1/8W	RV16.RR51	2
16-23-1335	CARBON FILM 3.3M OHM 1/8W	RV14	1

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MFR'S PART NO.	DESCRIPTION	SYMBOL NO.	Q'TY
RESISTORS			
16-23-1391	CARBON FILM 390 OHM 1/8W	RY23.24.35	3
16-23-1470	CARBON FILM 47 OHM 1/8W	RI42	1
16-23-1471	CARBON FILM 470 OHM 1/8W	RV02.RA19	2
16-23-1472	CARBON FILM 4.7K OHM 1/8W	RI02.27.RR26.29.40. RD02.RI03	7
16-23-1473	CARBON FILM 47K OHM 1/8W	RR31.RI10.RX09.RH07	4
16-23-1474	CARBON FILM 470K OHM 1/8W	RA09	1
16-23-1561	CARBON FILM 560 OHM 1/8W	RI18	1
16-23-1562	CARBON FILM 5.6K OHM 1/8W	RY03.21.27.RI12	4
16-23-1682	CARBON FILM 6.8K OHM 1/8W	RI24.28.RR54.RA20	4
16-23-1750	CARBON FILM 75 OHM 1/8W	RY14.15.16.17.18.20	6
16-23-1820	CARBON FILM 82 OHM 1/8W	RI06.19	2
16-23-1821	CARBON FILM 820 OHM 1/8W	RV08	1
16-23-1823	CARBON FILM 82K OHM 1/8W	RR49	1
16-23-1824	CARBON FILM 820K OHM 1/8W	RH12	1
MISCELLANEOUS			
14-01-0002	RECEIVER 38kHz	ICR3	1
15-03-0206	TUNER	TU02	1
24-10-0248	ANTENNA CONNECT CABLE		1
24-21-2001	WIRE WAFER 2P	HS06	1
24-41-2001	WIRE WAFER 2P	DEGAUSSING	1
24-41-4001	WIRE WAFER 4P	D.Y	1
24-51-1001	WIRE WAFER 1P	RH06.RP05	4
24-51-2002	WIRE WAFER 2P	HS01	1
24-G1-2001	WIRE HOUSING 2P	HS07-HS12.HS06-HS13	1
24-G1-2009	WIRE HOUSING 2P	HS14	1
24-G1-8005	WIRE HOUSING 8P	HS11	1
25-03-5023	FUSE 5A 250V	FS-2	1
29-32-2501	LED 2x5 RED	LDP1	1
39-16-0001	H-DRIVE TRANSFORMER	TH01	1
43-74-1003	FLYBACK TRANSFORMER		1
69-01-3008	SCREW ISO 3x8 RD+		2
69-24-2606	SCREW TAPPING 2.6x6 RD+		4
69-41-3006	SCREW MTP 3x6 RD+		1
69-41-3008	SCREW MTP 3x8 RD+		1
69-41-3010	SCREW MTP 3x10 RD+		1
70-01-3056	NUT ISO M3		4
87-22-1301	ANTENNA JACK HOLDER		1
87-87-0301	VERTICAL HEAT SINK		1
87-87-1045	HEAT SINK		1
87-G1-0101	HEAT SINK		2
87-G1-0201	POWER HEAT SINK		1
87-G5-1201	IC SHIELD		2
88-01-0804	LED HOLDER		1
88-B3-0701	LED HOLDER		1

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MFR'S PART NO.	DESCRIPTION	SYMBOL NO.	Q'TY
PCB			
85-G1-1007	MAIN PCB (BLANK)		1
SEMICONDUCTORS			
10-10-1017	IC M34300-012SP 42 PIN	ICR1	1
10-11-1005	IC MGM 80011P 8 PIN	ICR2	1
10-20-0118	IC TDA8395 16 PIN	ICN1	1
10-20-0119	IC TDA4661 16 PIN	ICDL	1
10-20-0607	IC TDA3653B 9 PIN	ICV1	1
10-20-0705	IC TDA8362 52 PIN	IC01	1
10-20-1009	IC AN5265 9 PIN	ICA1	1
10-20-1012	IC LA7910 9 PIN	ICM2	1
12-01-1002	TRANSISTOR 5417F (NPN)	QI01	1
12-02-1003	TRANSISTOR 2SC945 (NPN)	QR01,02,03,04,05,06, QI02,04,QA01,QC01,02 QPD3	12
12-03-1047	TRANSISTOR C2310/2229 (NPN)	QY01,02,03,04,05,06	6
12-03-2031	TRANSISTOR 8550 (PNP)	QPD2	1
12-03-2033	TRANSISTOR 2SA1012 (PNP)	QPD1	1
12-04-0001	TRANSISTOR TLS106-4	TD01	1
12-04-1002	TRANSISTOR D788CD/2SC2500	QH01	1
12-04-1013	TRANSISTOR BU407 (NPN)	QH02	1
12-05-5006	TRANSISTOR X'TAL 4.43MHz	XT01	1
12-05-5012	TRANSISTOR X'TAL 4.0 MHz	XTR1	1
13-03-1000	DIODE IN4148/HA161	DP03	1
13-05-1000	DIODE IN4001 1A 50V	DV01	1
13-05-1003	DIODE IN5400 3A 50V	DPD1	1
13-05-1008	DIODE PR1005 1A	DD01,02,DH05	3
13-05-1011	DIODE PR3005 3A 600V	DH06	1
13-05-1025	DIODE PR6005 6A 600V	DH04	1
13-06-1330	DIODE ZENER 33V	ZP04	1
13-06-1519	DIODE ZENER 5.1V	ZP01,02,ZD01,ZPD3	4
13-06-1829	DIODE ZENER 8.2V	ZP03	1
13-23-1000	DIODE IN4148	DR01,02,03,04,05,06,07 DR08,09,10,11,12,13,14 DR15,16,DPD2,D4,D5,02, DH01,02,DI01,04,DY01, DY02,DV02,DA01,DI02,03	30
CAPACITORS			
17-05-2479	ELECTROLYTIC 4.7uF 50V±10%	CH01	1
17-15-1120	CERAMIC 12 pF 50V ±5%	CI25	1
17-15-1151	CERAMIC 150pF 50V ±5%	ICR1 PIN#3, #4 TO GND	1
17-15-4104	CERAMIC .1 uF 50V +80%-20%	CP02	1
17-18-4152	CERAMIC .0015uF 500V +80%-20%	CH08,10,CY21	3
17-22-3102	ELECTROLYTIC 1000uF 16V±20%	CA23	1
17-21-3471	ELECTROLYTIC 470uF 10V ±20%	CD01	1
17-22-3471	ELECTROLYTIC 470uF 16V ±20%	CPD3	1

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MFR'S PART NO.	DESCRIPTION	SYMBOL NO.	Q'TY
CAPACITORS			
17-23-3222	ELECTROLYTIC 2200uF 25V ±20%	CPD1	1
17-24-3101	ELECTROLYTIC 100 uF 35V ±20%	CV06	1
17-24-3102	ELECTROLYTIC 1000uF 35V ±20%	CV10	1
17-24-3221	ELECTROLYTIC 220 uF 35V ±20%	CV07	1
17-24-3222	ELECTROLYTIC 2200uF 35V ±20%	CH07	1
17-24-3471	ELECTROLYTIC 470 uF 35V ±20%	CH05	1
17-26-3220	ELECTROLYTIC 22 uF 160V ±20%	CH09	1
17-26-3229	ELECTROLYTIC 2.2uF 160V ±20%	CH06	1
17-35-2104	MYLAR .1uF 50V ±10%	CI12,CV09,CH03,CN02	4
17-35-2222	MYLAR .0022uF 50V ±10%	CI21	1
17-35-2224	MYLAR .22 uF 50V ±10%	CN01	1
17-35-2683	MYLAR .068uF 50V ±10%	CV11	1
17-37-2335	MC 3.3 uF 250V ±10%	CD03	1
17-68-2332	DPPN 3300 pF 400V ±10%	//CH04	1
17-68-2823	DPPN .082uF 400V ±10%	CH04	1
27-15-1150	CERAMIC 15pF 50V ±5%	CR11,CI35	2
27-15-1151	CERAMIC 150pF 50V ±5%	CR14,15,CPD2	3
27-15-1180	CERAMIC 18 pF 50V ±5%	CX01	1
27-15-1220	CERAMIC 22 pF 50V ±5%	CR08,09	2
27-15-1390	CERAMIC 39 pF 50V ±5%	CR10	1
27-15-1680	CERAMIC 68 pF 50V ±5%	CI28	1
27-15-2221	CERAMIC 220pF 50V ±10%	CR19	1
27-15-2331	CERAMIC 330pF 50V ±10%	CY24	1
27-15-2471	CERAMIC 470pF 50V ±10%	CY23	1
27-15-2681	CERAMIC 680pF 50V ±10%	CR22,23,24,CY22	4
27-15-4102	CERAMIC .001uF 50V +80%-20%	CR17,31,CDL3,L4,CA25, CA26,27	7
27-15-4103	CERAMIC .01uF 50V +80%-20%	CI01,15,17,19,24,CH20	6
27-15-4104	CERAMIC 0.1uF 50V +80%-20%	CY01,10,11,12,15,16, CI08,16,30,CP05,06 CR02,CX02	13
27-15-4203	CERAMIC .02uF 50V +80%-20%	CP09,CDL2,CI13,CA18	4
27-15-4502	CERAMIC .005uF 50V +80%-20%	CR30	1
27-22-3101	ELECTROLYTIC 100uF 16V ±20%	CA17	1
27-22-3221	ELECTROLYTIC 220uF 16V ±20%	CP07,CA22,CY02	3
22-22-3470	ELECTROLYTIC 47uF 16V ±20%	CIG9,10,18,CP01,08, CD02,CN04	7
27-23-3100	ELECTROLYTIC 10uF 25V ±20%	CI02,05,07,26,29,31, CA02,19,20,CR01,20, CY04,25	13
27-23-3109	ELECTROLYTIC 1 uF 25V ±20%	CI03,04,CH11,CA24,CR26	5
27-25-3228	ELECTROLYTIC .22uF 50V ±20%	CA21	1
27-25-3229	ELECTROLYTIC 2.2uF 50V ±20%	CI06,14,33,CA01,04,CV08	6
27-25-3478	ELECTROLYTIC .47uF 50V ±20%	CV05	1
27-25-3479	ELECTROLYTIC 4.7uF 50V ±20%	CR16,27,28,29,CP04	5
27-35-2102	POLYESTER .001 uF 50V ±10%	CI27	1
27-35-2103	POLYESTER .01 uF 50V ±10%	CV03,04	2
27-35-2152	POLYESTER .0015uF 50V ±10%	CV01,12	2
27-35-2222	POLYESTER .0022uF 50V ±10%	CH02,13,14	3
27-15-2821	CERAMIC 820 pF 50V ±10%	CV02	1
27-15-1100	CERAMIC 10 pF 50V ±5%		1

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MFR'S PART NO.	DESCRIPTION	SYMBOL NO.	Q'TY
CAPACITORS			
27-35-2223	POLYESTER .022 uF 50V ±10%	CA03,CDL1,CN03	3
27-35-2332	POLYESTER .0033uF 50V ±10%	CA05	1
27-35-2472	POLYESTER .0047uF 50V ±10%	CH12,CX06	2
27-35-2473	POLYESTER .047 uF 50V ±10%	CY03,05,CA09	3
27-35-2682	POLYESTER .0068uF 50V ±10%	//CV11	1
CHOKES & IFTS			
18-03-3001	FILTER SIF 5.5 MHz	CFA1	1
18-03-3002	FILTER SIF TRAP 5.5 MHz	CFI1	1
18-03-5001	FILTER VIF CTV 38.9 MHz	SFI1	1
18-03-7065	FILTER VIF AFC 38.9 MHz	LI01	1
18-07-3001	FILTER SIF TRAP 6.5 MHz	CFI3	1
18-07-3002	FILTER SIF 6.5 MHz	CFA2	1
19-40-2159	CHOKE 1.5 uH	LA02	1
19-40-2180	CHOKE 18 uH	LA03	1
19-40-2229	CHOKE 2.2uH	LI07	1
19-40-2338	CHOKE .33uH	RI06	1
19-40-2339	CHOKE 3.3uH	LA04	1
19-40-2470	CHOKE 47 uH	LR02	1
19-40-2479	CHOKE 4.7uH	LI08	1
19-40-2828	CHOKE .82uH	LI05,06,LH02	3
19-40-3101	CHOKE 100uH	LP01,02,04,05,06	5
19-40-3151	CHOKE 2A 150 uH	LH03	1
19-43-1130	LINEAR COIL 13uH	LH01	1
JACKS			
23-01-0004	FUSE HOLDER		2
23-03-3502	MICROPHONE JACK 3.5D	JK07	1
23-05-5001	DC JACK, 4.5D	JK09	1
23-06-0015	RCA JACK, WHITE	A/I	1
23-06-0016	RCA JACK, YELLOW	V/I	1
23-06-0028	SOCKET, 21 PIN	JK06	1
23-08-0905	CRT SOCKET		1
SWITCHES			
22-12-0113	SWITCH, SLIDE, 1P2T	SWP1	1
22-12-0115	SWITCH, SLIDE, 1P2T	SW01	1
22-81-0103	SWITCH, TACT	SWK0,1,2,3,4,5,6,7,8,9	10
VARIABLE RESISTORS			
21-72-1039	SVR 10KB	VRI1, VRH1	2
21-72-2023	SVR 2KB	VRD1	1
21-72-3013	SVR 300B	VRV1	1
21-72-5023	SVR 5KB	VRY4,5	2
21-72-5024	SVR 5KB	VRV2	1

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MFR'S PART NO.	DESCRIPTION	SYMBOL NO.	Q'TY
RESISTORS			
16-01-1153	CARBON FILM 15K OHM 1/2W	RY33,34,36	3
16-01-1229	CARBON FILM 2.2 OHM 1/2W	RH01	1
16-03-1102	CARBON FILM 1K OHM 1/8W	RP03	1
16-03-1272	CARBON FILM 2.7KOHM 1/8W	RP02	1
16-06-1223	CARBON FILM 22K OHM 1 W	RD03	1
16-07-1479	CARBON FILM 4.7 OHM 2 W	RA22	1
16-12-1229	CARBON FILM 2.2 OHM 1/4W	RV07	1
16-12-1330	CARBON FILM 33 OHM 1/4W	RPD1,D5	2
16-12-1331	CARBON FILM 330 OHM 1/4W	RV10	1
16-12-1470	CARBON FILM 47 OHM 1/4W	RH02	1
16-12-1479	CARBON FILM 4.7 OHM 1/4W	RV01	1
16-47-1180	CARBON FILM 18 OHM 2 W	RP04	1
16-47-1270	CARBON FILM 27 OHM 2 W	RH06	1
16-47-1822	CARBON FILM 8.2K OHM 2 W	RP05	1
16-23-1101	CARBON FILM 100 OHM 1/8W	RI15,16,RV09	3
16-23-1102	CARBON FILM 1 K OHM 1/8W	RI23,25,26,36,40,RA01, RA07,11,12,13,14,16, RH03,04,RPD4,D6,RR21, RR24,RY19	19
16-23-1103	CARBON FILM 10K OHM 1/8W	RR27,28,32,33,34,35,46 RR47,48,56,57,58,59, RY01,RV03,05,11,19, RC03,04,RH09,RPD2,RI09 RY28	24
16-23-1104	CARBON FILM 100K OHM 1/8W	RR41,42,RX08,RV12	4
16-23-1109	CARBON FILM 1 OHM 1/8W	RA21	1
16-23-1121	CARBON FILM 120 OHM 1/8W	RI41	1
16-23-1122	CARBON FILM 1.2K OHM 1/8W	RR19,RI13	2
16-23-1123	CARBON FILM 12K OHM 1/8W	RR23,55,RI04,RPD3,RH13	5
16-23-1124	CARBON FILM 120K OHM 1/8W	RR52	1
16-23-1151	CARBON FILM 150 OHM 1/8W	RI38,RY38,39,40	4
16-23-1153	CARBON FILM 15K OHM 1/8W	RR39,RH05,RD01	3
16-23-1154	CARBON FILM 150K OHM 1/8W	RI11	1
16-23-1181	CARBON FILM 180 OHM 1/8W	RI37	1
16-23-1182	CARBON FILM 1.8K OHM 1/8W	RC01	1
16-23-1183	CARBON FILM 18 K OHM 1/8W	RR53,RI29,30	3
16-23-1221	CARBON FILM 220 OHM 1/8W	RP06,RA18	2
16-23-1222	CARBON FILM 2.2K OHM 1/8W	RY25,26,29,30,31,RI14, RI17,31,33,39,RA02	11
16-23-1223	CARBON FILM 22K OHM 1/8W	RR02,03,04,05,06,07,08 RR09,10,11,12,RC06,07, RV13	14
16-23-1229	CARBON FILM 2.2 OHM 1/8W	RH11	1
16-23-1271	CARBON FILM 270 OHM 1/8W	RP01	1
16-23-1273	CARBON FILM 27K OHM 1/8W	RI22,RDL1,RR50,37	4
16-23-1331	CARBON FILM 330 OHM 1/8W	RY07,08,09	3
16-23-1332	CARBON FILM 3.3K OHM 1/8W	RY04,05,06,RH08,RI07	5
16-23-1333	CARBON FILM 33K OHM 1/8W	RR22,25,45,RI08,RH10	5
16-23-1334	CARBON FILM 330K OHM 1/8W	RV16,RR51	2
16-03-1472	CARBON FILM 4.7K OHM 1/8W	RA08	1

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MFR'S PART NO.	DESCRIPTION	SYMBOL NO.	Q'TY
RESISTORS			
16-23-1335	CARBON FILM 3.3M OHM 1/8W	RV14	1
16-23-1391	CARBON FILM 390 OHM 1/8W	RY23,24,35	3
16-23-1470	CARBON FILM 47 OHM 1/8W	RI42	1
16-23-1471	CARBON FILM 470 OHM 1/8W	RV02,RA19	2
16-23-1472	CARBON FILM 4.7K OHM 1/8W	RI02,27,RR26,29,40, RD02,RI03	7
16-23-1473	CARBON FILM 47K OHM 1/8W	RR31,RI10,RX09,RH07	4
16-23-1474	CARBON FILM 470K OHM 1/8W	RA09	1
16-23-1561	CARBON FILM 560 OHM 1/8W	RI18	1
16-23-1562	CARBON FILM 5.6K OHM 1/8W	RY03,21,27,RI12	4
16-23-1682	CARBON FILM 6.8K OHM 1/8W	RI24,28,RR54,RA20	4
16-23-1750	CARBON FILM 75 OHM 1/8W	RY14,15,16,17,18,20	6
16-23-1820	CARBON FILM 82 OHM 1/8W	RI19	1
16-23-1821	CARBON FILM 820 OHM 1/8W	RV08	1
16-23-1823	CARBON FILM 82K OHM 1/8W	RR49	1
16-23-1824	CARBON FILM 820K OHM 1/8W	RH12	1
MISCELLANEOUS			
14-01-0002	RECEIVER 38kHz	ICR3	1
15-03-1201	TUNER	TU02	1
24-10-0248	ANTENNA CONNECT CABLE		1
24-21-2001	WIRE WAFER 2P	HS06	1
24-41-2001	WIRE WAFER 2P	DEGAUSSING	1
24-41-4001	WIRE WAFER 4P	D.Y	1
24-51-1001	WIRE WAFER 1P	RH06,RP05	4
24-51-2002	WIRE WAFER 2P	HS01	1
24-G1-2001	WIRE HOUSING 2P	HS07-HS12,HS06-HS13	1
24-G1-2009	WIRE HOUSING 2P	HS14	1
24-G1-8005	WIRE HOUSING 8P	HS11	1
25-03-5023	FUSE 5A 250V	FS-2	1
29-32-2501	LED 2x5 RED	LDP1	1
39-16-0001	H-DRIVE TRANSFORMER	TH01	1
43-74-1003	FLYBACK TRANSFORMER		1
69-01-3008	SCREW ISO 3x8 RD+		2
69-24-2606	SCREW TAPPING 2.6x6 RD+		4
69-41-3006	SCREW MTP 3x6 RD+		1
69-41-3008	SCREW MTP 3x8 RD+		1
69-41-3010	SCREW MTP 3x10 RD+		1
70-01-3056	NUT ISO M3		4
87-22-1301	ANTENNA JACK HOLDER		1
87-87-0301	VERTICAL HEAT SINK		1
87-87-1045	HEAT SINK		1
87-G1-0101	HEAT SINK		2
87-G1-0201	POWER HEAT SINK		1
87-G5-1201	IC SHIELD		2
88-01-0804	LED HOLDER		1
88-B3-0701	LED HOLDER		1

PARTS LIST
POWER PCB ASSEMBLY

CTV-552X
CTV-552EK

MFR'S PART NO.	DESCRIPTION	SYMBOL NO.	Q'TY
PCB			
85-G1-8501B	POWER PCB		1
SEMICONDUCTORS			
12-02-1003	TRANSISTOR 2SC945K, NPN	QP02,04	2
12-03-2031	TRANSISTOR 8550, PNP	QP03	1
12-04-1025	TRANSISTOR 2SD1545, NPN	QP01	1
13-03-1015	DIODE SW S10SC4M	DP09	1
13-05-1008	DIODE PR1005 1A	DP05,06,12	3
13-05-1036	DIODE RS205, BRIDGE 2A 600V	DP01	1
13-06-1829	DIODE ZENER 8.2V	DP08	1
13-06-1909	DIODE ZENER 9V	DP07	1
CAPACITORS			
17-11-4103	CERAMIC .01uF 1KV +80%-20%	CP04,05,06,07	4
17-15-4103	CERAMIC .01uF 50V +80%-20%	CP26	1
17-15-4104	CERAMIC .1uF 50V +80%-20%	CP18	1
17-22-0682	ELECTROLYTIC 6800 uF 16V	CP12	1
17-23-0101	ELECTROLYTIC 100uF 25V	CP22	1
17-24-0101	ELECTROLYTIC 100uF 35V	CP30	1
17-28-0101	ELECTROLYTIC 100uF 400V	CP09	1
17-35-2333	POLYESTER .033uF 50V ±10%	CP19	1
17-35-2472	POLYESTER .0047uF 50V ±10%	CP15	1
17-6A-2222	DMPP 2200pF 1KV METALLIZED	CP10	1
17-89-0224B	DMPP X-CAP 0.22uF 250V AC	CP01	1
17-89-2332	DMPP Y-CAP 3300pF 400V AC	CP21	1
17-89-2474B	DMPP X-CAP 0.47uF 250V AC	CP02	1
COILS & IFTS			
19-43-2900	CHOKE 90 uH 1A	LP02,03	2
19-46-1103	LINE FILTER	TP01	1
19-46-4750	CHOKE 4A 75 uH	LP04	1
VARIABLE RESISTORS			
21-72-1020	SEMI VR 1KB	SVR1	1

PARTS LIST
POWER PCB ASSEMBLY

CTV-552X
CTV-552EK

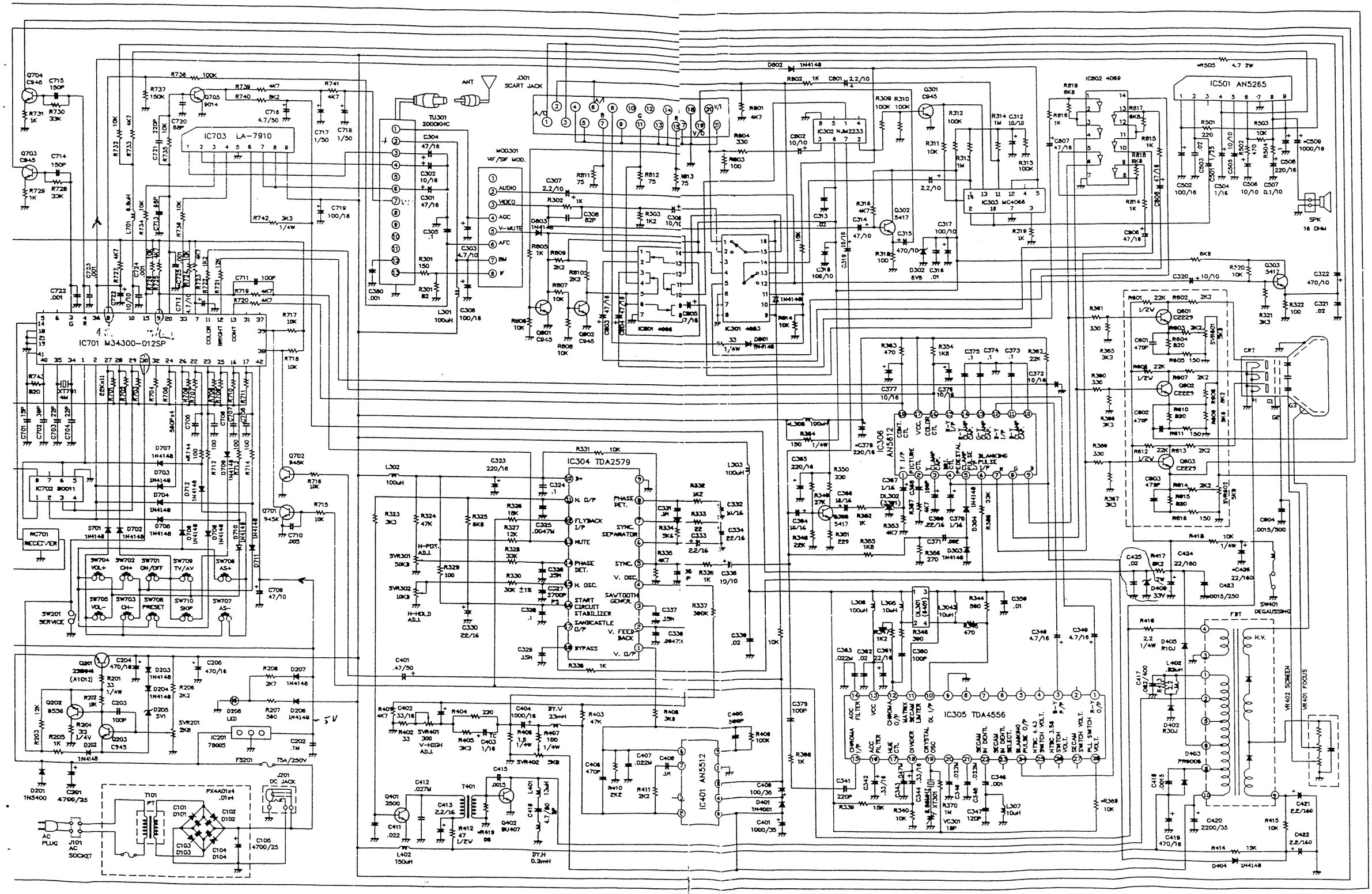
MFR'S PART NO.	DESCRIPTION	SYMBOL NO.	Q'TY
RESISTORS			
16-01-1184	180K OHM 1/2 W	RP04,05	2
16-01-1565	5.6M OHM 1/2 W	RP30,31	2
16-03-1103	10K OHM 1/8 W	RP22	1
16-03-1122	1.2K OHM 1/8 W	RP24	1
16-03-1272	2.7K OHM 1/8 W	RP26	1
16-03-1331	330 OHM 1/8 W	RP20	1
16-03-1472	4.7K OHM 1/8 W	RP19	1
16-03-1682	6.8K OHM 1/8 W	RP21,25	2
16-03-1822	8.2K OHM 1/8 W	RP23	1
16-40-1390	39 OHM 6 W	RP06	1
16-41-1154	150K OHM 1/2 W	RP02	1
16-46-1120	12 OHM 1 W	RP18	1
16-46-1338	0.33 OHM 1 W	RP28	1
16-47-1229S	2.2 OHM 2 W	RP03	1
16-47-1270S	27 OHM 2 W	RP27	1
16-50-1409	4 OHM 5 W	RP01	1
MISCELLANEOUS			
23-01-0004	FUSE HOLDER		2
23-04-1315	SOCKET AC VDE		1
24-51-1001	PIN 1P 2.3D, STRAIGHT		6
24-55-2014	HOUSING 2P		1
25-03-2021	FUSE T2A 250V		1
39-40-0067	SWITCHING TRANSFORMER		1
57-03-0001	PULLEY		2
58-21-1071	SILICON PLATE		1
58-21-1072	SWITCH FIBER		1
59-02-1003	SPONGE ADHESIVE		1
65-01-1202	RIVET 2Dx4		2
69-01-3008	SCREW ISO 3x8 RD+		1
69-01-3012	SCREW ISO 3x12 RD+		1
69-24-2606	SCREW TPH 2.6x6 RD+		2
70-01-3056	NUT M3x56		2
87-13-0701	MICA		1
87-78-0335	HEAT SINK		1
87-G1-0601	PCB BRACKET		1

PARTS LIST
FINAL ASSEMBLY

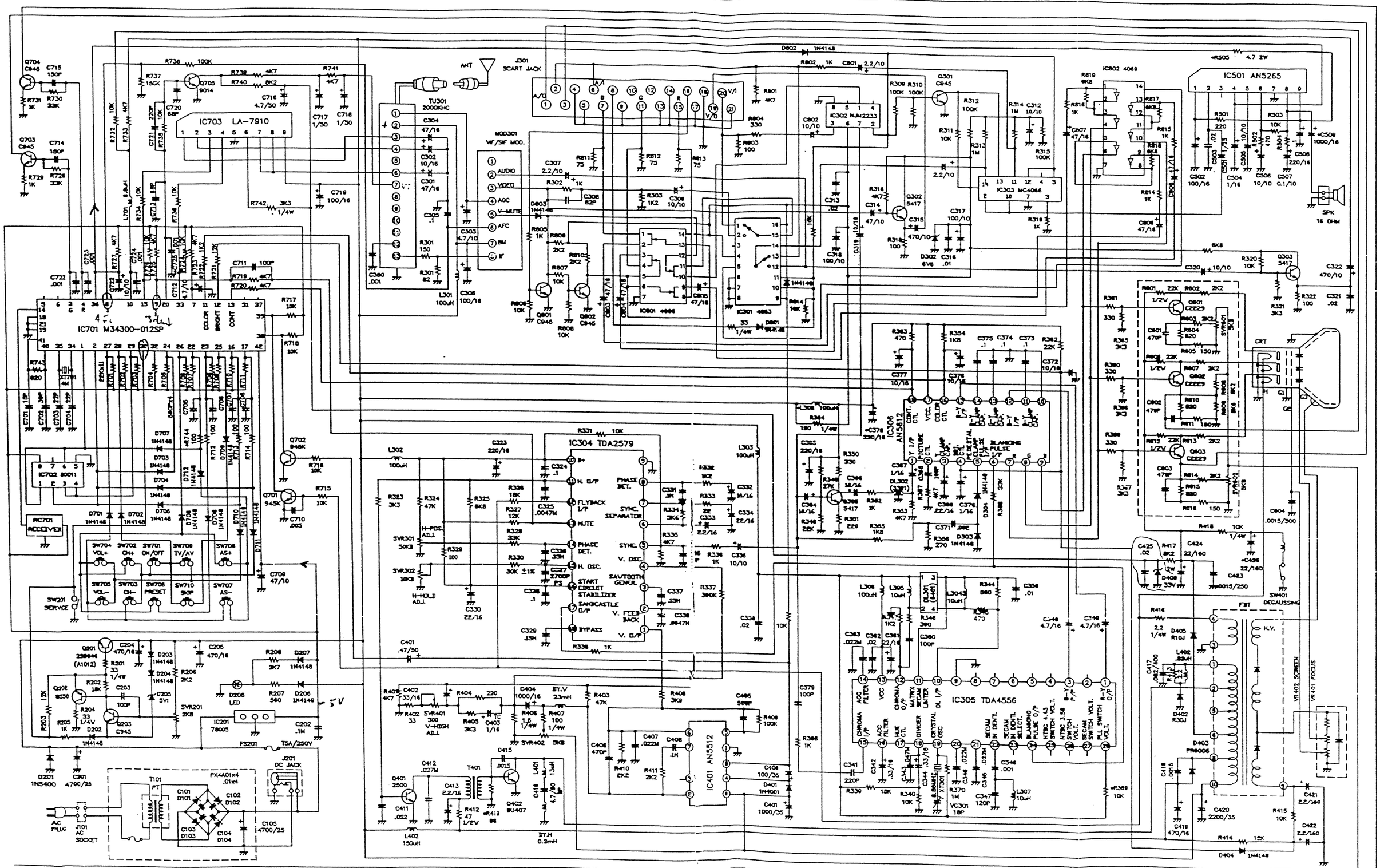
CTV-552X
CTV-552EK

MFR'S PART NO.	DESCRIPTION	Q'TY
MISCELLANEOUS		
02-47-1002	CRT 10" CTV	1
19-70-0004	DEGAUSSING COIL	1
24-20-2021	WIRE HOUSING, 2P	1
24-10-0239	ANTENNA CONNECTOR	1
26-21-9201	ROD ANTENNA	1
31-04-0010	NYLON TIE 10 CM	1
33-13-1593	BATTERY SUM-3 NO MORCURY	1
37-35-1091	SPEAKER 3" 16 OHM, 1W	1
38-10-0202	AC CORD VCD W/C SOCKET	1
38-93-0203	CAR CORD 5A	1
42-01-0012	REMOTE CONTROL	1
55-02-8002	CRT SPRING	1
55-02-9013	SPEAKER SPRING	1
59-02-1030	SPONGE ADHESIVE FOR "552EK"	1
64-01-6006	RUBBER FOOT	2
64-04-6009	RUBBER FOOT	4
METAL PARTS		
69-21-3008	SCREW TAPPING 3x8, RD+, SMALL DOOR	2
69-21-3010	SCREW TAPPING 3x10 RD+, S-BALL	2
69-21-3012	SCREW TAPPING 3x12 RD+, SW POWER PCB	1
69-21-3014	SCREW TAPPING 3x14 RD+, F/B CAB., ROD ANT.	5
69-42-2606	SCREW MTP 2.6x6, RD+, ANTENNA	2
69-21-4016	SCREW TAPPING 4x16 RD+, FBT	1
69-70-3014	SCREW TPW 3x14 RD+, PT	2
69-72-4016	SCREW TPW 4x16	4
PLASTIC PARTS		
88-87-1401	DEGAUSSING SWITCH KNOB	1
88-01-0602	DOOR LOCK	1
88-C7-0404	SWIVEL BALL	1
88-C7-0504	SWIVEL BASE	1
88-C7-0604	SWIVEL BRACKET	1
88-G1-0101	FRONT CABINET	1
88-G1-0201	BACK CABINET	1
88-G1-0801	FRONT COVER	1
88-G1-0401	DOOR	1
88-G1-0501	POWER KNOB	1
88-G1-0901	SMALL DOOR	1
APPEARANCES		
50-G1-10016	MODEL PLATE, ROADSTAR, FOR CTV-552X	1
50-G1-1009	MODEL PLATE, ROADSTAR, FOR CTV-552EK	1
51-E9-0062	REMOTE CONTROL PLATE	1
51-G1-0101	FUNCTION PLATE, FOR CTV-552X	1
51-G1-0109	FUNCTION PLATE, FOR CTV-552EK	1
51-G1-0201	SENSOR PLATE	1
90-G1-1001C	SCREEN LABEL FOR CTV-552X	1
90-G1-0009	SCREEN LABEL FOR CTV-552EK	1
90-E5-4001	SERIAL LABEL	1
90-D9-0004	LABEL "EK", FOR CTV-552EK	2
90-G1-2001A	LABEL "X", FOR CTV-552X	2
91-78-2438	WARRANT CARD	1
91-G1-1001E	INSTRUCTION BOOK FOR CTV-552X	1
91-G1-1009	INSTRUCTION BOOK FOR CTV-552EK	1
91-G1-3001	INSTRUCTION BOOK (ITALY)	1
94-G1-0001A	CARTON FOR CTV-552X	1
94-G1-0009	CARTON FOR CTV-552EK	1
96-G1-0001	POLYFOAM	1

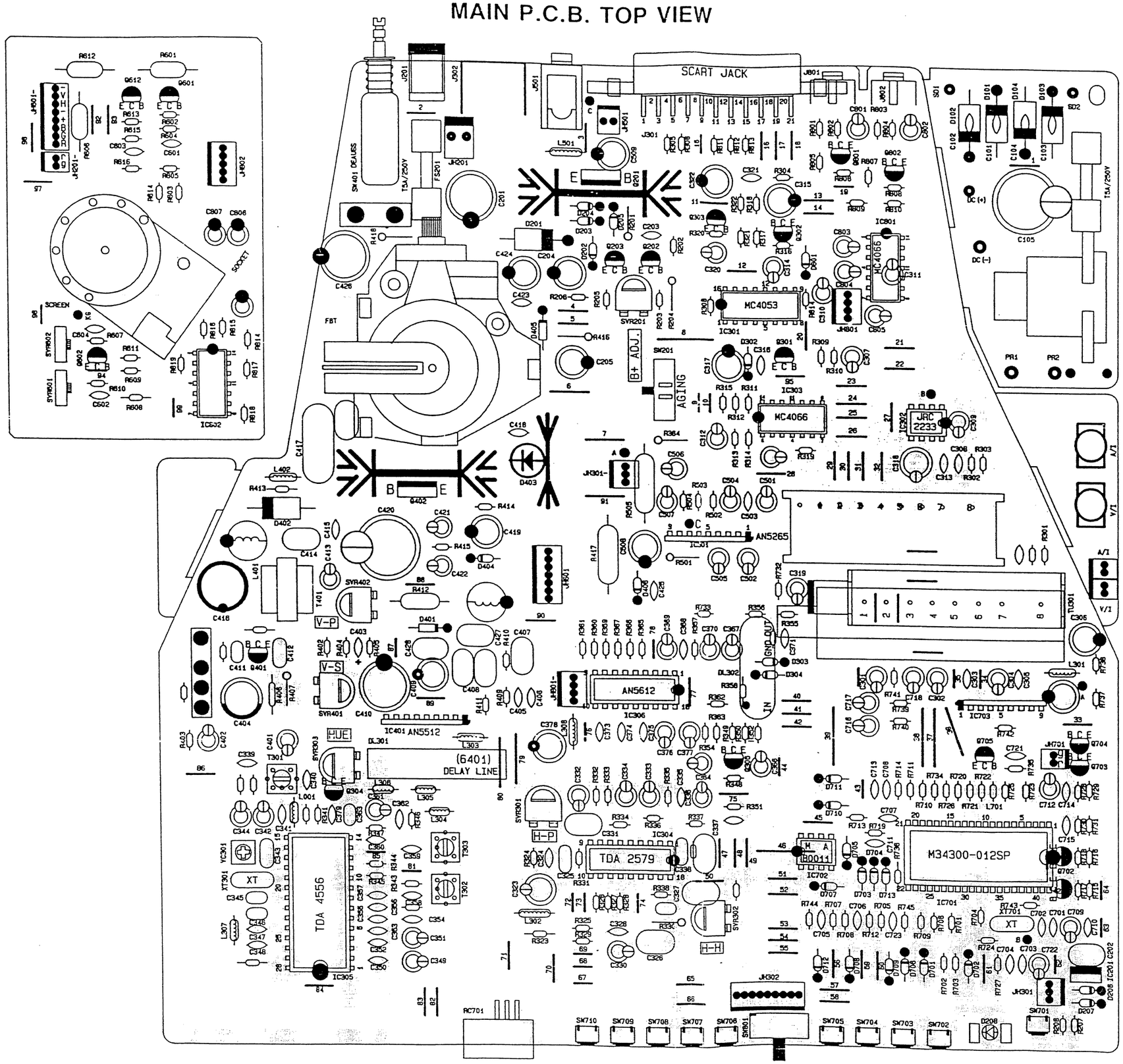
TV SCHEMATIC DIAGRAM



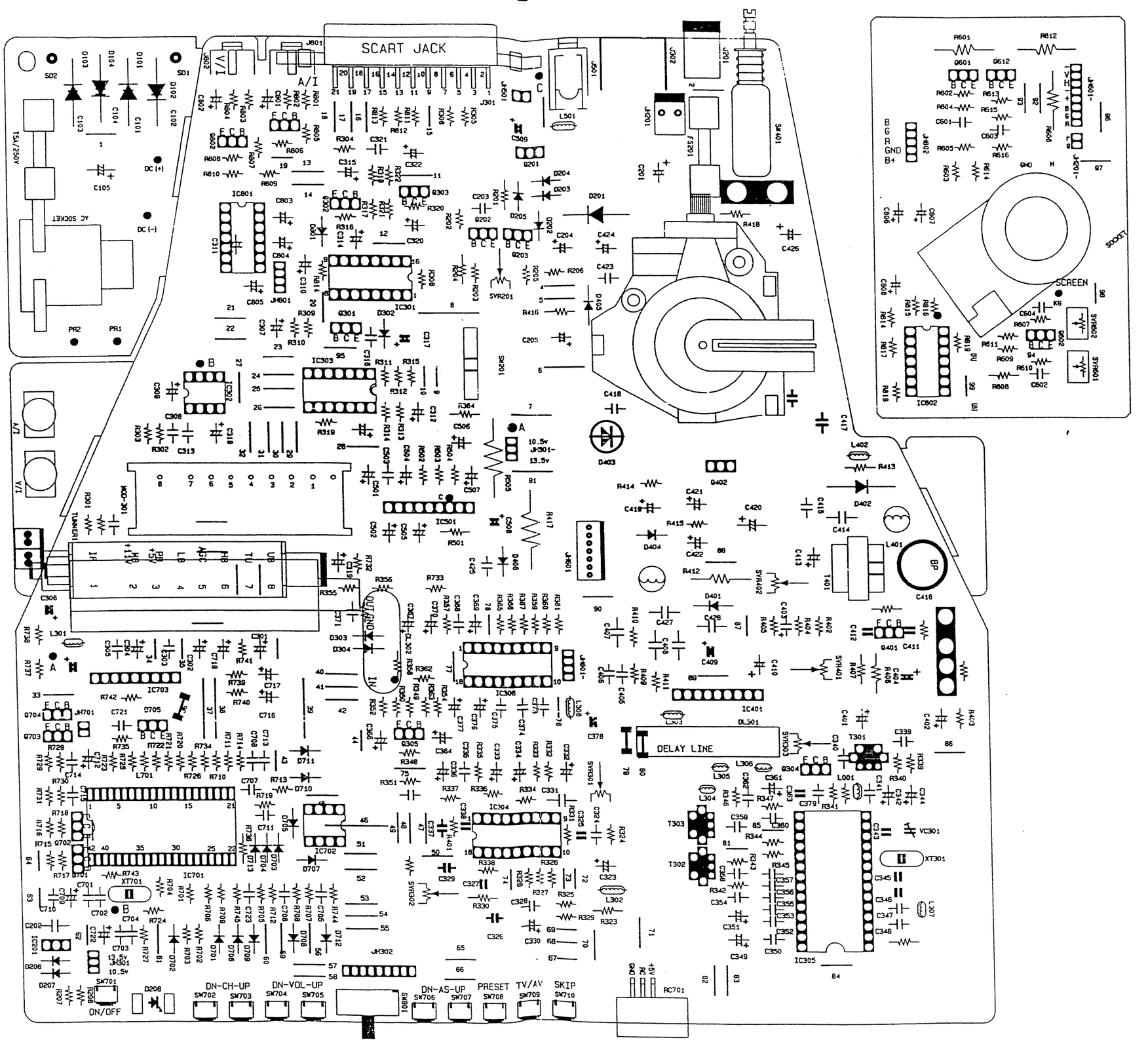
TV SCHEMATIC DIAGRAM



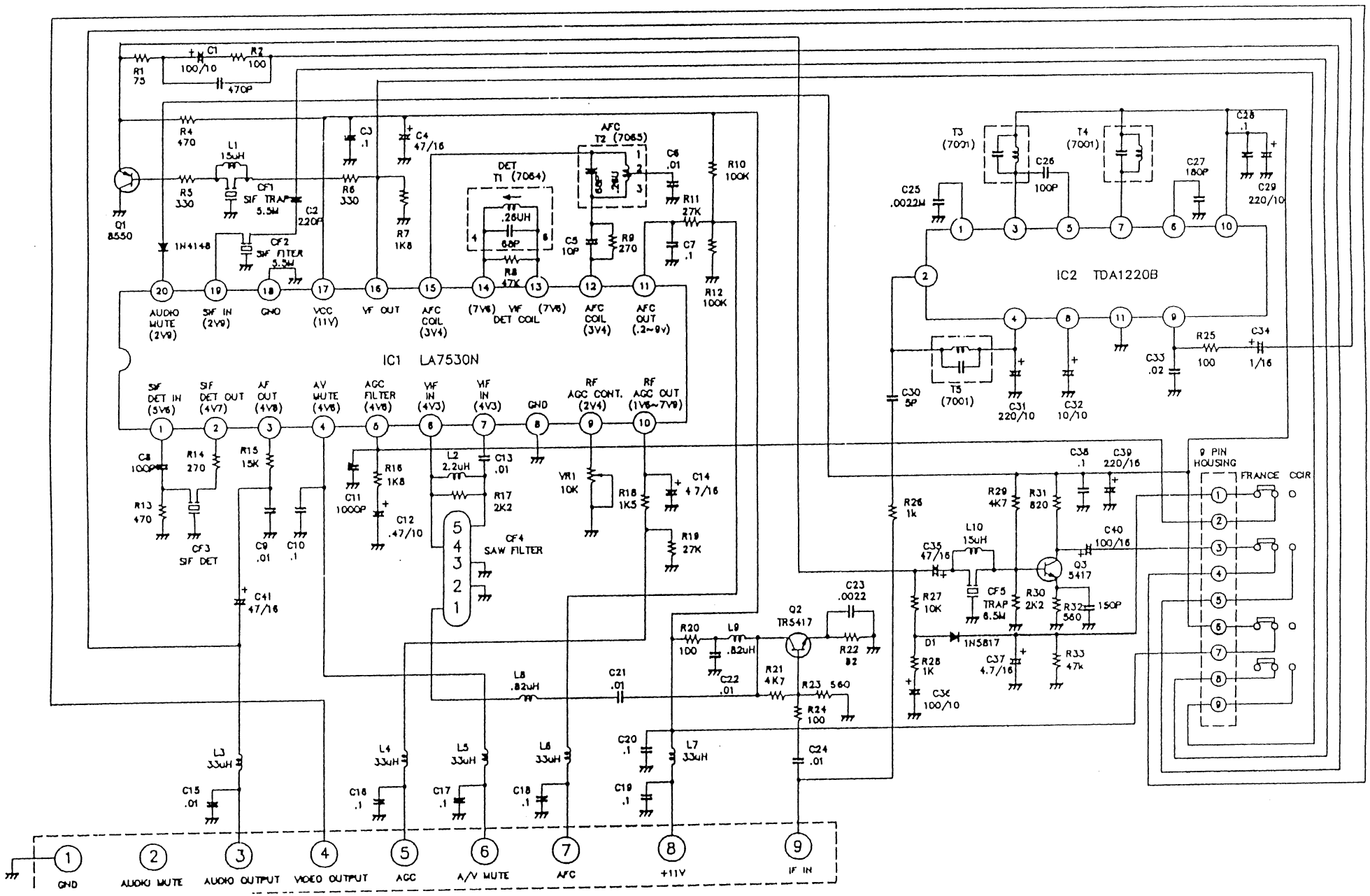
MAIN P.C.B. TOP VIEW



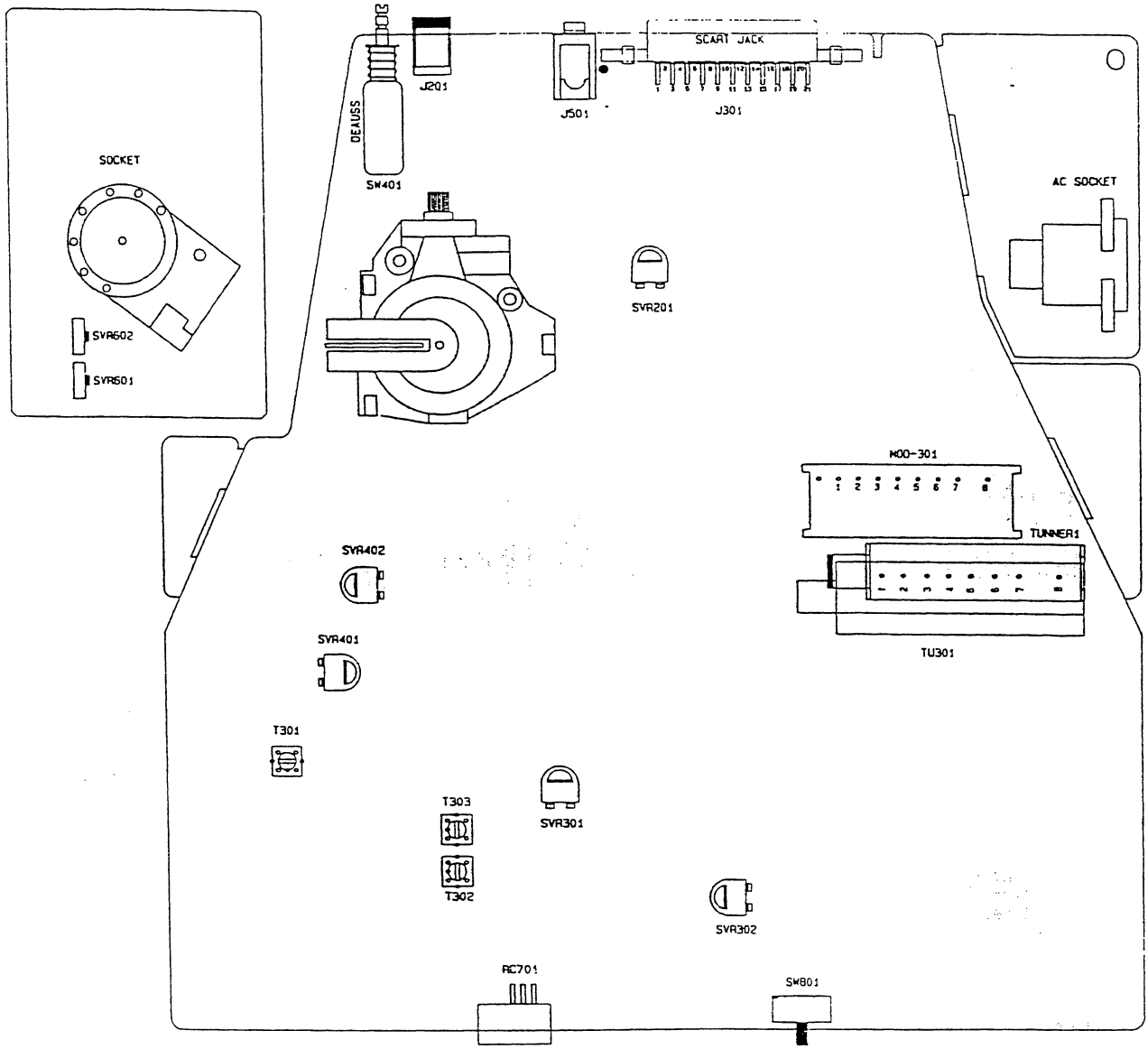
MAIN P.C.B BOTTOM VIEW



VIF DET. MODULE OF CTV 552XL



CHASSIS ALIGNMENT POINTS OF CTV 552XL



ALIGNMENT PROCEDURE

REGULATOR ADJUSTMENT

1. CONNECT TV UNIT TO DC 12V-14V POWER SUPPLY & TEST PATTERN GENERATOR.

2. CONNECT A DC DIGITAL VOLTMETER OR OTHER PRECISION ACCURARY VOLTMETER TO THE COLLECTOR OF THE REQULATOR OUTPUT TRANSISTOR Q201 (OR ANY 10.8 VOLT POINT OR TP1).

3. ADJUST HORIZONTAL HOLD SVR302 UNTIL THE PICTURE HOLD IN SYNC.

4. VERTICAL HIGHTNESS ALIGNMENT
   ADJUST THE VERTICAL HIGHTNESS SVR401 ENABLE THE CIRCLE OF PICTURE APPROACH TO CIRCLE.

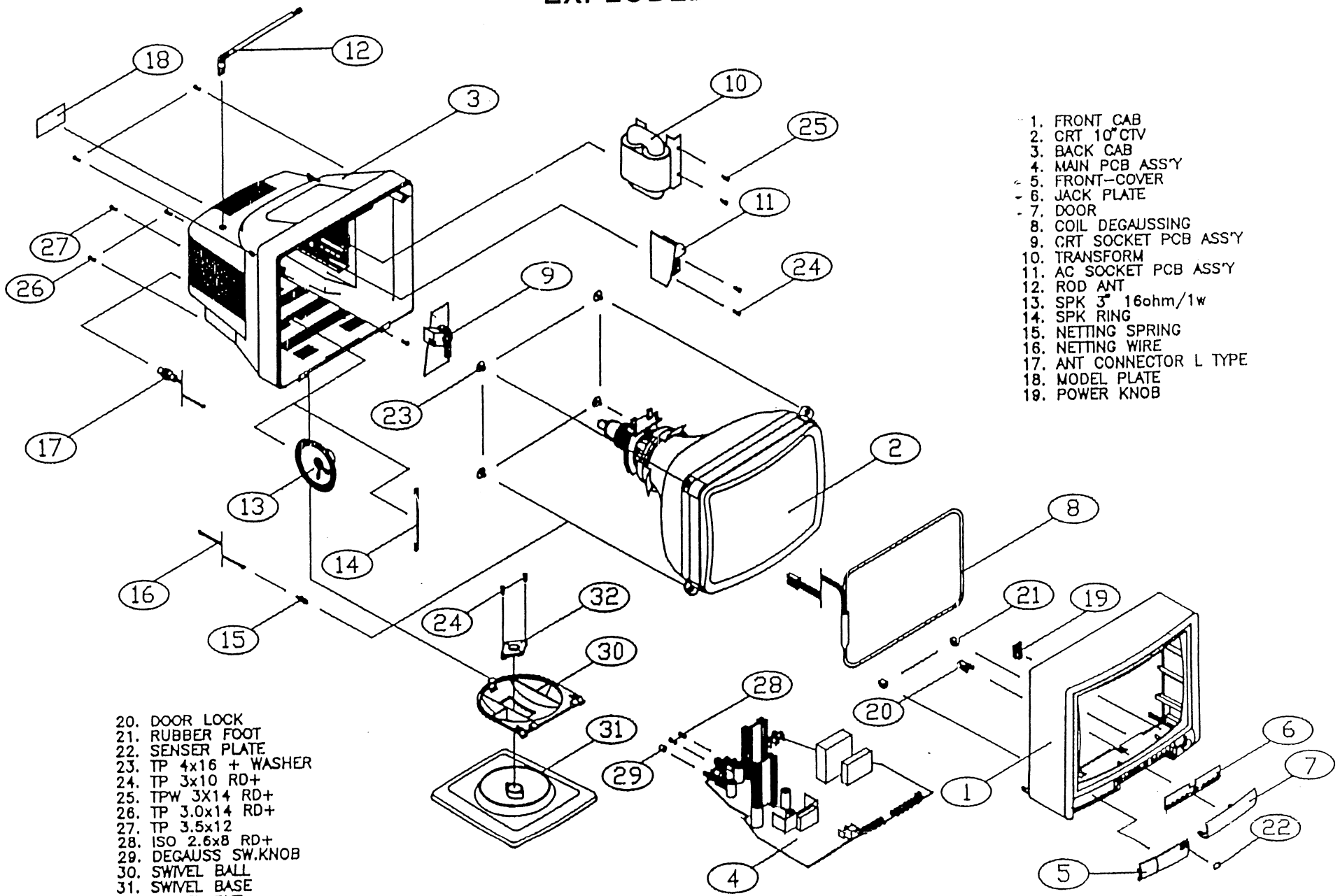
5. HORIZONTALL POSITION ALIGNMENT
   ADJUST HORIZONTAL POSITION SVR301, LET THE SQUARE SIGNAL IN THE CENTER OF THE SCREEN.

6. RF AGC ALIGNMENT
   ADJUST VIF MODULE AGC CONTROL VR1 AT INPUT SIGNAL INTENSITY 50dB, THE SCREEN COULD LOOKING CLEAR AND 80dB THE SCREEN DON'T INFLECT.

7. WHITE BALANCE ALIGNMENT
   ADJUST THE SVR602, SVR601, AT CENTER POSITION, ADJUST SCREEN VR402, LET THE SCREEN WILL BE LITTLE BRIGHTNESS. ADJUST SVR602 LET THE SCREEN TO BE YELLOW, AND THEN ADJUST SVR601 LET THE SCREEN APPROACH TO WHITE.

8. FOCUS ADJUSTMENT
   ADJUST FOCUS VR401, LET THE STRIP LINE ON THE SCREEN TO BE CLEAR.

EXPLODED VIEW



1. FRONT CAB
2. CRT 10"CTV
3. BACK CAB
4. MAIN PCB ASS'Y
5. FRONT-COVER
6. JACK PLATE
7. DOOR
8. COIL DEGAUSSING
9. CRT SOCKET PCB ASS'Y
10. TRANSFORM
11. AC SOCKET PCB ASS'Y
12. ROD ANT
13. SPK 3" 16ohm/1w
14. SPK RING
15. NETTING SPRING
16. NETTING WIRE
17. ANT CONNECTOR L TYPE
18. MODEL PLATE
19. POWER KNOB

20. DOOR LOCK
21. RUBBER FOOT
22. SENSER PLATE
23. TP 4x16 + WASHER
24. TP 3x10 RD+
25. TPW 3X14 RD+
26. TP 3.0x14 RD+
27. TP 3.5x12
28. ISO 2.6x8 RD+
29. DEGAUSS SW.KNOB
30. SWIVEL BALL
31. SWIVEL BASE
32. SWIVEL BKT

WIRING DIAGRAM OF CTV 552X
CTV 552XL